

Wirnet™ iBTS

LoRaWAN® Outdoor Gateway for the Internet of Things





The "Wirnet™ iBTS" is the ideal gateway to support your smart city, smart building or every smart project as it combines both an excellent Outdoor coverage (more than 15km in direct line-of-sight and 2km in urban environment) and operational excellence.



Smart Cities



Smart Building



Smart Metering



Smart Agriculture & Environment

Kerlink is certified ISO9001: 2015 by AFNOR certification. The Quality Management System gives high priority to Customer satisfaction and progress implementation.



Key Features

Outdoor LoRa® Gateway,

Compact Version

- Supported unlicensed bands: 863-874.4MHz (EMEA, India), 902-928MHz (North America), 915-928MHz (APAC, Latin America),
- Supported LoRaWAN® regional parameters: EU863-870, IN865-867, RU864-870, US902-928, AU915-928, AS923, KR920-923,

• Modular configurations:

- from 16 channels (1 x LoRa RF modem) to 80 channels (4 x LoRa RF modem),
- Single omnidirectional antenna, spatial diversity, dual polarization, tri-sectorization,
- Possibility to support multiple unlicensed bands in a single gateway,
- Backhaul connectivity: Cellular 2G/3G/4G evolutive to 5G (mini-PCle module), Ethernet 10/100 Mbps (RJ45),
- **Geolocation ready:** Using the fine timestamps on ALL the channels for improved geolocation services thanks to FPGA. Fully compliant with Semtech reference design v2. No proprietary locked solution; **Synchronization with GPS, combines RSSI and TDOA measurements.**

Key Differentiators

High performance, reliability & future-proof

- · Semtech Reference Design v2,
- Built-in high rejection filters,
- LoRa-E[™] Ready: Evolutive design using modem SDR (Software Design Radio) architecture.

Secure HW and SW architecture

- SecureBoot (Signed firmware),
- SecureStorage (keys and certificates in secured area) using ProvenCore™ solution,
- Secured links and backhaul protection (OpenVPN/IPsec),
- Reboot (watchdog) and recovery to previous Management config (or factory config if the boot issue is not fixed).



Wirnet™ iBTS

LoRaWAN® Outdoor Gateway for the Internet of Things

Zoom on "iBTS Standard" Version

- Modular configuration:
- 1 x UC module,
- Select up to 2 x WAN modules (optional),
- **Select up to 4** x LoRa® RF modem modules (16 channels each), Each LoRa RF modem allows 16ch RX (125 kHz, multi Spreading Factor) + 2ch RX (250kHz or 500kHz, mono Spreading Factor) + 2ch FSK + 2ch TX (without antenna diversity) to get up to 80 ch RX (with 4 x LoRa RF modem),
- Size: 295 x 317 x 125 mm (including mounting kit),
- Ingress protection (IP66),
- Weight:
 - About 6,2Kg (including mounting kit) with 1 x LoRa RF modem,
 - About 7,2Kg (including mounting kit) with 3 x LoRa RF modems.

Zoom on "iBTS Compact" Version

- Compact configuration:
 - 1 x UC module,
 - 1 x WAN module (optional),
 - 1 x LoRa® RF modem module (16 channels),
- Size: 357 x 189 x 150 mm (including mounting kit),
- Ingress protection (IP67),
- Weight: about 3Kg (including mounting kit).

Technical Features

- Sniffer for LBT (Listen Before Talk),
- Rx Sensitivity: -141 dBm (SF12),
- TX Conducted Power: configurable from 5dBm to 30dBm,
- Range -40°C +60°C, (for gateway only, without power supply),
- Humidity: 5% to 95%,
- Out-band radio scanners to monitor the entire band to detect real load of the band (Spectrum analysis compliant),
- Supercapacitors for clean shut down of applications in case of power failure,
- Power:
 - Power Over Ethernet 30W for Compact version (accessory),
 - Power Over Ethernet **60W** for **Standard** version (accessory),
 - Power Over Ethernet 48V DC class 4 (accessory),
 - DC power supply (ex : solar panel use) : 11 to 56V DC (accessory),
 - Power control : ignition detection, software OFF switching, ON/OFF button.

Software Features

- Same FW as Wirnet™ iStation and iFemtoCell: same user experience, quicker integration,
- Dynamic web interface (On-the fly modifications),
- **Programmable Gateway:** Toolchain, libraries and header files for compilation of in-house SW, or extra packages additions,
- Including:
 - Operating System: KerOS with embedded GNU/Linux based on Yocto 2.4 and LTS kernel 4.14,
 - Native Language Support: Python2, C/C++ and Shell,
 - Included packages: SQlite (Database), Connman/ Ofono, NTPd, lighttpd.

Value-added Services

- Free access to Kerlink Wiki for customers,
- Plug & Play installation (option),
- Wirnet™ iBTS is part of the end-to-end LoRa® connectivity solution with Kerlink Wanesy™ Management Center, remote monitoring and Operations Management suite (option),
- Maintenance Services (option),
- **Kerlink Project Management:** a comprehensive service offering and a global network of specialist integrators to support your entire project.

Thanks to their expertise and experience, Kerlink teams are fully mobilized to help you develop your business and reduce your operational and commercial risks.

Don't hesitate to contact us:





Wirnet[™] iBTS (standard)



Wirnet™ iBTS Compact



Wirnet™ iBTS

LoRaWAN® Outdoor Gateway for the Internet of Things

Wirnet[™] iBTS Compact - Ordering references

Product Ordering References

Reference	Designation	Description	ISM Frequencies
PDTIOT-MCS01	16CH LoRa, ETH backhaul only	Wirnet iBTS Compact - 1LOC868-0W868-EU	863-874.4MHz
PDTIOT-MCS02	16CH LoRa, 2G/3G/4G backhaul + ETH backhaul	Wirnet iBTS Compact - 1LOC868-1W868-EU	863-874.4MHz
PDTIOT-MCS18	16CH LoRa, Double 2G/3G/4G backhaul	Wirnet iBTS Compact 1LOC 1DW-EUEU	863-874.4MHz
PDTIOT-MCS12	16CH LoRa, 2G/3G/4G backhaul + ETH backhaul	Wirnet iBTS Compact - 1LOC915-1W915-US	902-928MHz
PDTIOT-MCS19	16CH LoRa, 2G/3G/4G backhaul + ETH backhaul	Wirnet iBTS Compact 1LOC923 1W915-US	915-928MHz
PDTIOT-MCS10	16CH LoRa, 2G/3G/4G backhaul + ETH backhaul	Wirnet iBTS Compact - 1LOC923-1W923-EU	915-928MHz
PDTIOT-MCS15	16CH LoRa, 2G/3G/4G backhaul + ETH backhaul	Wirnet iBTS Compact - 1LOC923-1W923-AS	915-928MHz

KLK03524	Self-amalgamating tape - 3m	Mounting accessories for outdoor installation
KLK03540	Stainless Steel Hose clamp	Mounting accessories for outdoor installation

868 Accessory Ordering References (Wirnet™ iBTS Compact)

DC/DC	CONVERTER

DC/DC CONVERTER			
KLK02898	Power Supply	40W - DC/DC CONVERTER - 48VDC Input	
PoE INJECTOR	Designation	Description	Recommendation
KLK03525	POE Injector	PoE Injector 30 W indoor – 48V DC Input	
KLK03505	POE Injector	PoE Injector 30 W indoor - AC Input - EU	
KLK03554	In addition to KLK03505	AC Power supply cable for UK (IEC-320-C13)	
EXTERNAL ANTENNA (op	otional)		
ACCIOT-KAN00	Antenna + 1m cable + support included	Antenna kit Omni 868 MHz 3 dBi	
ACCIOT-KAN01	Antenna + 1m cable + support included	Antenna kit Omni 868 MHz 6 dBi	
ACCIOT-KAN06	Product Subpart	Connectivity kit for antenna diversity (Antenna	not included)
(Outdoor) CAVITY FILTER	3		
KLK02523	Cavity filter 865-867 MHz	India	
KLK02916	CAVITY FILTER 863-873 MHz - OUTDOOR	EU coexistence high power emitters	(former ACCIOT-CAV04
KLK03410_01	Cavity filter 865-870 MHz	865-870 MHz, EU coexistence LTE800, RGSM	
SURGE PROTECTION			
KLK02817	Surge Protection for POE link - Outdoor	PoE Surge protection - outdoor	Recommended
KLK02818	Surge Protection for POE link - Indoor	PoE Surge protection - Indoor	Recommended
KLK02881	Surge Protection - DC Link – Indoor	DC Input	
KLK02900	Surge Protection for Lora link - Outdoor	RF coaxial Surge protection - outdoor	Recommended
ACCWM2-SDE00	Debug Probe	Wirnet iBTS / Wirma Debug Probe	



915 Accessory Ordering References (Wirnet™ iBTS Compact)

DC/DC CONVERTER			
KLK02898	Power Supply	40W - DC/DC CONVERTER - 48VDC Input	
PoE INJECTOR		Description	Recommendation
KLK03525	POE Injector	PoE Injector 30 W indoor – 48V DC Input	
KLK03505	POE Injector	PoE Injector 30 W indoor - AC Input - EU	
KLK03506	POE Injector	PoE Injector 30 W indoor - AC Input - US	
EXTERNAL ANTENNA (opti	ional)		
ACCIOT-KAN02	Antenna + 1m cable + support included	Antenna kit Omni 915/923 MHz 6 dBi	
ACCIOT-KAN03	Antenna + 1m cable + support included	Antenna kit Omni 915/923 Mhz 3 dBi	
ACCIOT-KAN06	Product Subpart	Connectivity kit for antenna diversity (Antenna r	ot included)
SURGE PROTECTION			
KLK02817	Surge Protection for POE link - Outdoor	PoE Surge protection - outdoor	
KLK02818	Surge Protection for POE link - Indoor	PoE Surge protection - Indoor	
KLK02881	Surge Protection - DC Link – Indoor	DC Input	
KLK02900	Surge Protection for Lora link - Outdoor	RF coaxial Surge protection - outdoor	Recommended
(Outdoor) CAVITY FILTER			
KLK02906	Cavity filter 915-920MHz	Philippines, Israel, Cuba	
KLK02973	Cavity filter 902-928MHz	USA, Canada, Mexico	
DEBUG			
ACCWM2-SDE00	Debug Probe	Wirnet iBTS / Wirma Debug Probe	

923 Accessory Ordering References (Wirnet™ iBTS Compact)

DC/DC CONVERTER			
KLK02898	Power Supply	40W - DC/DC CONVERTER - 48VDC Input	
PoE INJECTOR		Description	Recommendation
KLK03525	POE Injector	PoE Injector 30 W indoor – 48V DC Input	
KLK03505	POE Injector	PoE Injector 30 W indoor - AC Input - EU	
KLK03055	In addition to KLK03505	AC Power supply cable for Japan (IEC-320-C13)	
KLK03553	In addition to KLK03505	AC Power supply cable for Australia (IEC-320-C1	3)
EXTERNAL ANTENNA (opti	ional)		
ACCIOT-KAN02	Antenna + 1m cable + support included	Antenna kit Omni 915/923 MHz 6 dBi	
ACCIOT-KAN03	Antenna + 1m cable + support included	Antenna kit Omni 915/923 Mhz 3 dBi	
ACCIOT-KAN06	Product Subpart	Connectivity kit for antenna diversity (Antenna no	t included)
SURGE PROTECTION			
KLK02817	Surge Protection for POE link - Outdoor	PoE Surge protection - outdoor	
KLK02818	Surge Protection for POE link - Indoor	PoE Surge protection - Indoor	
KLK02881	Surge Protection - DC Link – Indoor	DC Input	
KLK02900	Surge Protection for Lora link - Outdoor	RF coaxial Surge protection - outdoor	Recommended
(Outdoor) CAVITY FILTER			
KLK02522	Cavity filter 920-925 MHz	South Korea, Singapore, HK, Taiwan, Thailand, Can	nbodia
KLK02905	Cavity filter 918-923 MHz	Indonesia Malaysia, Vietnam, Mynanmar	
KLK02909_01	Cavity filter 920-928 MHz	New-Zealand, Japan, Costa Rica, Venezuela	
KLK03306	Cavity filter 915-928 MHz	APAC, LATAM	
DEBUG			
		Wirnet iBTS / Wirma Debug Probe	



Wirnet[™] iBTS Full - Ordering references

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ACCWM2-SDE00

Reference PDTIOT-MSS16	Designation	Description	ISM Frequencies 915-928MHz
PD1101-INISS16	Wirnet iBTS - 1LOC923-1W923-AS	16CH LoRa, 2G/3G/4G backhaul + ETH backhaul	915-928WHZ
Common accesso	ries for outdoor installation		
KLK03524	Self-amalgamating tape - 3m	Mounting accessories for outdoor installation	
KLK03540	Stainless Steel Hose clamp	Mounting accessories for outdoor installation	
68 Accessory Orde	ering References (Wirnet™ iBTS Full)		
DC/DC CONVERTER			
KLK02882	Power Supply	60W - DC/DC CONVERTER 48VDC input	
KLK02898	Power Supply	40W - DC/DC CONVERTER - 48VDC Input	16 CH only
PoE INJECTOR			
KLK03505	POE Injector	PoE Injector 30 W indoor - AC Input - EU	16 CH only
KLK03550	POE Injector	PoE Injector - 60 W indoor - AC Input	
KLK03554	In addition to KLK03505, KLK03550	AC Power supply cable for UK (IEC-320-C13)	
EXTERNAL ANTENNA (op	tional)		
ACCIOT-KAN00	Antenna + 1m cable + support included	Antenna kit Omni 868 MHz 3 dBi	
ACCIOT-KAN01	Antenna + 1m cable + support included	Antenna kit Omni 868 MHz 6 dBi	
ACCIOT-KAN05	Antenna	Kit WAN 700-2700 MHz 5dBi - 5m - N Male	
ACCIOT-KAN06	Product Subpart	Connectivity kit for antenna diversity (Antenna not included)	
(Outdoor) CAVITY FILTER			
KLK02523	Cavity filter 865-867 MHz	India	
KLK02916	Cavity filter 868 MHz	863-873MHz - EU coexistence high power emitters	
KLK03410_01	Cavity filter 865-870 MHz	865-870 MHz, EU coexistence LTE800, RGSM	
SURGE PROTECTION			
KLK02817	Surge Protection for POE link - Outdoor	PoE Surge protection - Outdoor	Recommended
KLK02818	Surge Protection for POE link - Indoor	PoE Surge protection - Indoor	Recommended
	RF Surge Protection for GSM and GPS Link	RF Surge protection - LoRa	Recommended
KLK02819		<u> </u>	
KLK02819 KLK02881	Surge Protection - DC Link - Indoor	DC Input	



915 Accessory Ordering References (Wirnet™ iBTS Full)

DC/DC CONVERTER KLK02898	Power Supply	40W - DC/DC CONVERTER - 48VDC Input	16 CH only
KLK02882	Power Supply	60W - DC/DC CONVERTER 48VDC input	
		·	
PoE INJECTOR			
KLK03525	POE Injector	PoE Injector 30 W indoor – 48V DC Input	16 CH only
KLK03505	POE Injector	PoE Injector 30 W indoor - AC Input - EU	16 CH only
KLK03506	POE Injector	PoE Injector 30 W indoor - AC Input - US	
KLK03550	POE Injector	PoE Injector - 60 W indoor - AC Input	
EXTERNAL ANTENNA (optional)			
ACCIOT-KAN02	Antenna + 1m cable + support included	Antenna kit Omni 915/923 MHz 6 dBi	
ACCIOT-KAN03	Antenna + 1m cable + support included	Antenna kit Omni 915/923 Mhz 3 dBi	
ACCIOT-KAN05	Antenna WAN + 5m cable + support included	Kit WAN 700-2700 MHz 5dBi - 5m - N Male	
ACCIOT-KAN06	Product Subpart	Connectivity kit for antenna diversity (Antenna not included)	
(Outdoor) CAVITY FILTER			
(Outdoor) CAVITY FILTER	Cavity filter 902-928MHz	LISA Canada Movico	
KLK02973	Cavity filter 902-928MHz	USA, Canada, Mexico Philippines, Israel, Cuba	
KLK02906	Cavity litter 915-920 MHz	Philippines, Israel, Cuba	
SURGE PROTECTION			
KLK02817	Surge Protection for POE link - Outdoor	PoE Surge protection - Outdoor	
KLK02817 KLK02818	Surge Protection for POE link - Outdoor	PoE Surge protection - Indoor	
KLK02819	RF Surge Protection for GSM and GPS Link	RF Surge protection - LoRa	Recommended
KLK02881	Surge Protection - DC Link – Indoor	DC Input	Necommended
KLK02900	Surge Protection for Lora link - Outdoor	RF coaxial Surge protection - Outdoor	Recommended
KERO2300	Surge Froteetion for Eora link Outdoor	THE COUNTRY SURGE PROTECTION OUTCOOL	necommenaca
DEBUG			
23 Accessory Ordering R	Debug Probe deferences (Wirnet™ iBTS Full)	Wirnet iBTS / Wirma Debug Probe	
ACCWM2-SDE00 23 Accessory Ordering R	deferences (Wirnet™ iBTS Full) Power Supply	Wirnet iBTS / Wirma Debug Probe 40W - DC/DC CONVERTER - 48VDC Input	16 CH only
23 Accessory Ordering R	eferences (Wirnet™ iBTS Full)		16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882	deferences (Wirnet™ iBTS Full) Power Supply	40W - DC/DC CONVERTER - 48VDC Input	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR	Teferences (Wirnet™ iBTS Full) Power Supply Power Supply	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input	·
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525	Power Supply Power Supply Power Supply Poer Supply	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505	Power Supply Power Supply PoE Injector POE Injector	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input	·
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055	Power Supply Power Supply Poer Supply Poer Injector POE Injector In addition to KLK03505	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13)	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055 KLK03550	Power Supply Power Supply PoE Injector POE Injector In addition to KLK03505 POE Injector	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055	Power Supply Power Supply Poer Supply Poer Injector POE Injector In addition to KLK03505	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13)	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03505 KLK03550 KLK03550 KLK03553	Power Supply Power Supply PoE Injector POE Injector In addition to KLK03505 POE Injector	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03505 KLK03550 KLK03553 EXTERNAL ANTENNA (optional)	Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13)	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03550 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03555 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN02	Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05	Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 Mhz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN02	Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03505 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN05 ACCIOT-KAN06	Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 Mhz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055 KLK03055 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN03	Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 Mhz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03555 KLK03555 KLK03555 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN05 ACCIOT-KAN06	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included)	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03550 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 Mhz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 Mhz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055 KLK03055 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 920-928 MHz	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03055 KLK03055 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 920-928 MHz	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03555 KLK03555 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01 KLK03306	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 920-928 MHz	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03505 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN02 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01 KLK03306 SURGE PROTECTION	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 915-928 MHz Cavity filter 915-928 MHz	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor - 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03505 KLK03505 KLK03505 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN05 ACCIOT-KAN05 ACCIOT-KAN05 SURGE PROTECTION KLK02817	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna wAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 915-928 MHz Cavity filter 915-928 MHz Surge Protection for POE link - Outdoor	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor - 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 6 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM PoE Surge protection - Outdoor	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03555 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01 KLK03306 SURGE PROTECTION KLK02817 KLK02818	Power Supply Power Supply Power Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna wAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 915-928 MHz Cavity filter 915-928 MHz Surge Protection for POE link - Outdoor Surge Protection for POE link - Indoor	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 6 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM PoE Surge protection - Outdoor PoE Surge protection - Indoor	16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03550 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01 KLK03306 SURGE PROTECTION KLK02817 KLK02818 KLK02819	Power Supply Power Supply Power Supply Poet Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 915-928 MHz Cavity filter 915-928 MHz Surge Protection for POE link - Outdoor Surge Protection for POE link - Indoor RF Surge Protection for GSM and GPS Link	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 Mhz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM PoE Surge protection - Outdoor PoE Surge protection - Indoor RF Surge protection - LoRa	16 CH only
23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03505 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN02 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02905 KLK02305 KLK02305 KLK02817 KLK02818 KLK02909	Power Supply Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 918-928 MHz Cavity filter 915-928 MHz Surge Protection for POE link - Outdoor Surge Protection for POE link - Indoor RF Surge Protection - DC Link - Indoor	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM PoE Surge protection - Outdoor PoE Surge protection - Indoor RF Surge protection - LoRa DC Input	16 CH only 16 CH only
ACCWM2-SDE00 23 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03555 KLK03555 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01 KLK03306 SURGE PROTECTION KLK02817 KLK02818 KLK02819 KLK02819 KLK02819	Power Supply Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 918-928 MHz Cavity filter 915-928 MHz Surge Protection for POE link - Outdoor Surge Protection for POE link - Indoor RF Surge Protection - DC Link - Indoor	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM PoE Surge protection - Outdoor PoE Surge protection - Indoor RF Surge protection - LoRa DC Input RF coaxial Surge protection - Outdoor	16 CH only 16 CH only
ACCWM2-SDE00 3 Accessory Ordering R DC/DC CONVERTER KLK02898 KLK02882 POE INJECTOR KLK03525 KLK03505 KLK03555 KLK03555 KLK03550 KLK03553 EXTERNAL ANTENNA (optional) ACCIOT-KAN02 ACCIOT-KAN03 ACCIOT-KAN05 ACCIOT-KAN06 (Outdoor) CAVITY FILTER KLK02522 KLK02905 KLK02909_01 KLK02909_01 KLK02817 KLK02818 KLK02819 KLK02818 KLK02900	Power Supply Power Supply Power Supply Poer Supply POE Injector POE Injector In addition to KLK03505 POE Injector In addition to KLK03505 Antenna + 1m cable + support included Antenna + 1m cable + support included Antenna WAN + 5m cable + support included Product Subpart Cavity filter 920-925 MHz Cavity filter 918-923 MHz Cavity filter 918-928 MHz Cavity filter 915-928 MHz Surge Protection for POE link - Outdoor Surge Protection for POE link - Indoor RF Surge Protection - DC Link - Indoor	40W - DC/DC CONVERTER - 48VDC Input 60W - DC/DC CONVERTER 48VDC input PoE Injector 30 W indoor – 48V DC Input PoE Injector 30 W indoor - AC Input - EU AC Power supply cable for Japan (IEC-320-C13) PoE Injector - 60 W indoor - AC Input AC Power supply cable for Australia (IEC-320-C13) Antenna kit Omni 915/923 MHz 6 dBi Antenna kit Omni 915/923 MHz 3 dBi Kit WAN 700-2700 MHz 5dBi - 5m - N Male Connectivity kit for antenna diversity (Antenna not included) South Korea, Singapore, HK, Taiwan, Thailand, Cambodia Indonesia Malaysia, Vietnam, Mynanmar New-Zealand, Japan, Costa Rica, Venezuela APAC, LATAM PoE Surge protection - Outdoor PoE Surge protection - Indoor RF Surge protection - LoRa DC Input	16 CH only 16 CH only