Similar to illustration

Integrating machines and systems into the "Internet of Things" is incredibly quick and easy with the WAGO IoT Box Energy Data 4G.
This IoT Box features power and energy measurement functionality and is ready for immediate use. It also offers all the functions required for digitalization, from signal acquisition to cloud connectivity.
The IoT Box was designed as a plug-and-play device – no hardware engineering is needed. Collected data is transferred to the desired IoT application with just a few parameter settings.
The hardware includes a controller with its own communication interface, I/O modules with analog and digital inputs/outputs, a 3-phase power measurement module and a 24 V power supply unit.

The integrated 4G cellular modem provides a wireless connection to the Internet and includes a radio license for EU countries.

Depending on the application, additional I/O modules can be added later to adapt the system to specific requirements.

The IoT Box includes:

- Controller PFC200; 2nd Generation; 2 x ETHERNET, RS-232/-485, Mobile Radio Module 4G: 750-8217
- Magnetic-Mount Antenna; with 2.5 m cable and SMA plug; GSM/UMTS/LTE/Bluetooth®/WLAN; 698-960, 1400-1518, 1710-2700 MHz: 758-975
- Switched-Mode Power Supply; Classic; 1-phase; Output voltage: 24 VDC; Output current: 2 A; NEC Class 2; DC OK signal: 787-1606
- 8-Channel Digital Input; 24 VDC; 3 ms; 2-wire connection: 750-1415
- 8-Channel Digital Output; 24 VDC; 0.5 A; 2-wire connection: 750-1515
- 8-Channel Analog Input; resistance measurement; adjustable: 750-451
- 4-Channel Analog Input; voltage/current; differential input; 16 bits; diagnostics: 750-471
- 3-Phase Power Measurement; 690 VAC; 1 A: 750-495/000-002
- Rogowski Coil; Primary rated current: 1000 A; Output signal: 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor: 70 mm: 855-9150/2000-701
- End Module: 750-600
- SD Memory Card; pSLC-NAND; 8 GB; Temperature range: −40 … +90 °C: 758-879/000-2108
- IoT Box Application (installed and licensed)
- Circuit Breaker; 1-pole; C 10 A; 10 kA
- Electronic Circuit Breaker; 1-pole; 24 VDC; 1 … 8 A
- Set of Wall-Mount Lugs
- Cable Grips M16; M20; M25
- Connectors (plug and socket) for power supply

Technical data

Communication	ETHERNET RS-232 serial interface RS-485 interface MQTT
ETHERNET protocols	DHCP DNS FTP FTPS HTTP HTTPS SSH
Visualization	Web-Visu
Services	GPRS connection to Internet
Radio technology	GSM/UMTS/LTE

Technical data

Frequency band	GSM dual band (B3; B8); E-UTRA bands (B1; B3; B5; B7; B8; B20; B38; B40; B41)
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud rate	ETHERNET: 10/100 Mbit/s
Supply voltage	230 VAC; (L/N/PE); 50 Hz

Physical data

Width	300 mm
Height	300 mm
Depth	210 mm

Mechanical Data

Weight	9429.7 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 … +45 ℃
Surrounding air temperature (storage)	-40 … +85 ℃
Protection type	IP20
Note on protection type	IP20/IP65; (IP65 only applies when both power and LAN cables are locked)
Pollution degree (5)	I
Relative humidity (without condensation)	95 %
Mounting type	Wall-mount
Fire load	102.304 MJ

Commercial data

ETIM 8.0	EC002581
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	QU
GTIN	4055144092448
Customs tariff number	85371091990

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2854-099/000-003	↓

Documentation

Manual			
WAGO Applikation IoT-Box	2.1.0 23.06.2021	pdf 4792.77 KB	↓

Bid Text		
2854-099/000-003	docx 26.12 KB	↓
2854-099/000-003	xml 8.20 KB	↓

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Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: www.wago.com