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LoRaWAN Gateway



UCT LoRaWAN Gateway is a compact, low cost, low power wide area network (LPWAN) wireless Gateway which supports Semtech LoRaWAN® long range wireless protocol. This Gateway measures just 197.5x90x60mm, is housed in an ABS Enclosure and comprises a Semtech SX1302 Based-band Processor along with a pair of SX1257, a highly integrated RF Front End with Multi-PHY Mode & I/Q Modem on Chip transceiver.

Key Features at a glance:



LoRaWAN Support



Comprehensive Safety And Reliability



Personal Support for your Implementation



Smart Irrigation



Machine Monitoring



Utility Management



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System Configuration	
Core	Cortex-A53 64-bit
Clock Frequency	1.2 GHz
RAM	1GB SDRAM
Flash	16 GB Flash

LoRaWAN®	
Baseband	SX1302
RF Front End	SX1257
Max RF TransmitPower	+27 dBm
Receive Sensitivity	Down up to -145 dBm on SF12 & 125KHz Channel BW
SNR Sensitivity	up to -20 dBm
Frequency	865-867 MHz (ISM Band India)
No. of Channels	8 Channels, 125 KHz per Channel
Spread Factor	SF7-SF12
Data Rate	250 - 5470 bits/sec
LoRa Antenna Port	1 × 50 Ω SMA Female

Internet Backhaul	
Wired	Ethernet 10/100
WiFi	2.4 GHz with on board WiFi Antenna
Cellular	4g
Cellular Antenna Port	1 × 50 Ω SMA Female

Power Supply	
Default	5V DC thru AC-DC adaptor
Optional	N/A
Power Consumption	5W Typical, MAX 6.5W



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Enclosure	
Ingress Protection Level	IP65
Dimensions	197.5x90x60 mm
Weight	TBD
Mounting Option	Tabletop / WallMount

Environment	
Operating Temperature	-20°C to +70°C
Storage Temperature	-20°C to +85°C
Relative Humidity	0% to 90% (non-condensing) at 25°C

ORDERING INFORMATION	
Product Name	Product Code
LoRaWAN Gateway	XXXX

Dimensions (all units in mm)

