

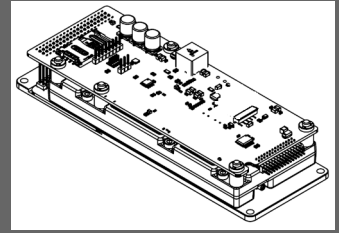
Satphone 9770 OEM

A Flexible Developer Module for the Certus 100

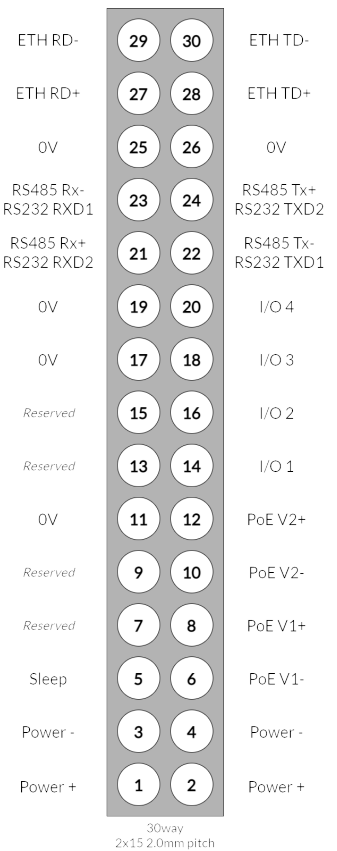
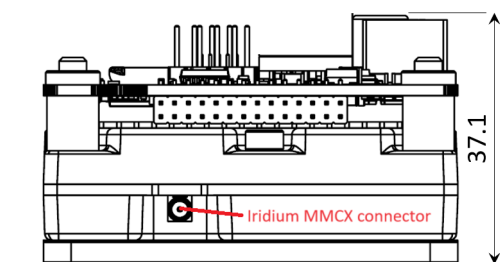
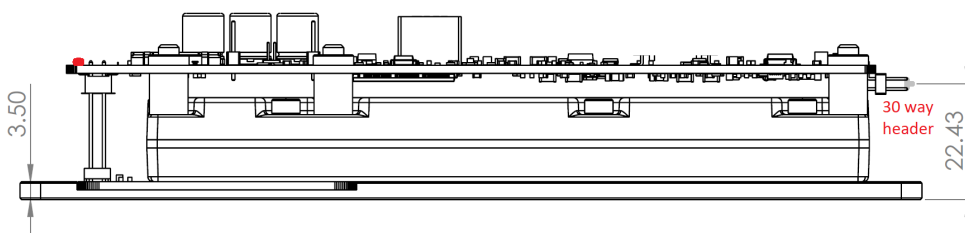
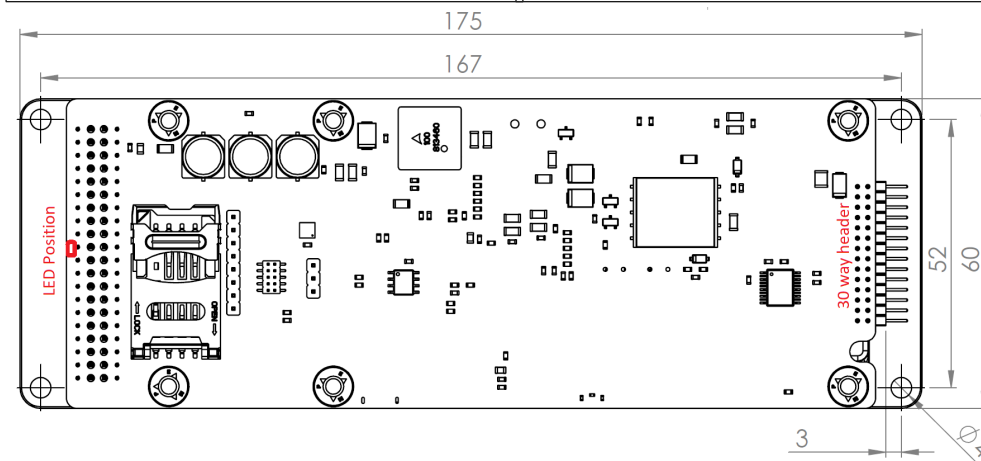
Provides satellite connectivity via the built in Iridium Certus 100 module. Make TCP/IP connections or use the more efficient IMT messaging protocol from Iridium. 9770 OEM will be able to achieve full Iridium certification for use in OEM applications. Configuration of ethernet LAN and the WAN is accomplished via Bluetooth (BLE) using a companion App or API.

9770 OEM is optimised for low power consumption for a market-leading implementation of the Iridium Certus 100 module. The unit can also be supplied by Power Over Ethernet(POE).

All essential non-RF connections are made using a single 30way 2x15 2.0mm pitch header. Iridium Certus and GNSS antennas required for the full solution. Designed for easy installation using just 4 screw mounts.



Item	Specification
Supply voltage	10 - 30V DC
Power consumption (Sleep)	< 10mW/30mW (12V/24V)
Power consumption (Idle - Rx mode)	< 250mW (<20.8mA@12V, <10.4mA@24V)
PEAK current draw	<1.66A@12V, <833mA@24V, 10% duty cycle during Iridium transmit.
Serial interface	RS232 or RS485
GPIO	4 channels
UART	Logic level UART accessible on the PCB (2nd header - PCB position TBD)
Operating temperature/humidity	-40°C to 70°C, ≤ 95% RH
LAN	10/100 Ethernet with PoE capability.
WAN	Iridium Certus 100
Bluetooth	BLE 5.0 (Config API framework will be published)
Iridium antenna connection	MMCX
GNSS antenna connection	U.FL (PCB position TBD)



LED colour	Meaning
Green (solid)	Powered
Green (flashing)	LAN activity
Red (solid)	OK
Red (flashing)	Fault
Blue (solid)	Iridium connection
Blue (flashing)	Bluetooth ready.
All flashing in sequence	Bluetooth connected

DANGER

These documents are intended to provide early access information to interested parties during the development process. Whilst we strive to maintain accuracy, any part of the specification or design of these products may change without notice.

These documents were last reviewed for accuracy on October 10, 2023.