

3. VIS-LINK

The following page is extracted from the VIS-LINK User Manual draft.

Base Station

The VIS-LINK Base Station is a single-sector (omnidirectional) single-piece (not including antenna) unit suitable for indoor or outdoor (pole-mounted) installation. Base Stations support POE (power-over-Ethernet), possibly using multiple feeds or a proprietary power injector, if final power requirements exceed IEEE 802.3af limits. Pole-mounting the base transceiver minimizes RF cable losses, which is especially important due to the 1W power limit.

The 700 MHz version will permit the installation of multiple (2-3) Base Station units on a single tower, using directional antennas to implement a sectorized site.

Mechanical:	extruded or cast aluminum housing
Size:	TBD not to exceed 10 x 15 x 20 cm
Weight:	< 5 kg
Supply Voltage:	48 Volts DC POE
RX Current:	TBD mA Standby
TX Current:	< TBD A
Operating Temp	-30 to +60 degrees C
Capable of meeting:	MIL 810F 501.4 502.4
Humidity:	5%-95% non-condensing
Capable of meeting:	MIL 810F 507.4 SAE J1455 4.2
Vibration:	MIL 810F, 514.5
Capable of meeting:	SAE J1455 4.9
Shock:	MIL 810F, 516.5
Capable of meeting:	SAE J1455
ESD:	IEC 61000-4-2
Capable of meeting:	
RF connectors:	2x N type, both Tx/Rx 1x SMA: GPS (optional frequency reference)
Backhaul Interface:	Ethernet RJ45 Auto-MDIX 10-100/T
Frequency Stability:	1.0 ppm (without GPS reference)
Data Encryption:	AES 128-bit
Mode of Operation:	Half Duplex TDD