

Single Subscriber Unit  
(Data Modem)

Wireless Local Loop

DECLoop<sub>WLL</sub>

closing the communication gap



**The Single Subscriber Unit or SSU - Data Modem** is the new generation of fixed subscriber terminal in the DECLoop system that offers voice and data services to the subscriber. The SSU/ Data Modem offers a standard telephone port (RJ11) to which a standard telephone, facsimile machine or modem can be connected, and in addition, an Ethernet port (RJ45) for direct Internet connectivity, thereby acting as the data modem.

**The SSU offers the following features:**

1. Direct Ethernet connectivity (on PPPoE protocol),
2. Longer talk-time (up to 8 hours) and standby-time (up to 30 hours),
3. Always-On Feature for Data / Internet services,
4. Direct Solar Panel input port.

**Key Specifications:**

Air Interface Specifications	
Compliance	DECT specifications ETS 300-175 2
Operating Frequency	1880 to 1900 MHz (DECT Band 1) 1900 to 1920 MHz (DECT Band 2) 1910 to 1930 MHz (DECT Band 3)
Nominal Transmit Power	+24 dBm
Receiver Sensitivity	Better than -90 dBm (BER of 10 <sup>-3</sup> or lower)
Built-in Antenna Gain	10 dBi (±1 dB)
Speech Transmission Specifications	
Voice Coding	ADPCM as per ITU-T G.726
Compliance	ITU-T recommendation Q.552
Phone Port Specifications	
Phone Support	Pulse; DTMF (Frequencies supported as per ITU-T recommendations Q.23)
Polarity Reversal	Supported
Metering Pulse	16/12 KHz, programmable on request
Interface Port Specifications	
Internet Port Interface	Ethernet (As per IEEE 802.3, 10 base-T at 10 Mbps)  Access Protocol [As per PPP (RFC 1661) with PPPoE framing (RFC 2516)]  Physical Data Rate (10 Mbps)
Internet Throughput (at Application Layer)	Sustained 64 kbps Throughput (Data only) Sustained 32 kbps Throughput (Simultaneous Voice & Data)
Power Supply Specifications	
AC Input Voltage	150 V ~ 270 V, 45 Hz ~ 65 Hz
Peak AC Input Power	12 VA ± 10%

Battery Requirement	12 V Sealed battery from 0.9 to 3.3 Ah <sup>(1)</sup>
Solar Power Input Voltage <sup>(2)</sup>	12 V ~ 20 V
Recommended Solar Power Rating	12 W <sub>peak</sub> (max.) at illumination of 1 kw/m <sup>2</sup>
Mechanical Specifications	
Enclosure	ALM: Weather-proof Thermoplastic enclosure suitable for both indoor and outdoor mounting CPM: Suitable for indoor usage
Dimension (L x W x H)	ALM: 240 x 150 x 65 mm CPM: 211 x 183 x 61 mm
Weight	ALM: 0.60 kg CPM: 0.75 kg/2.0 kg (without/with battery)
Mounting	ALM: Suitable for mounting on pole or on towers with appropriate mounting fixtures CPM: Wall mounting
Environmental Specifications	
Operating Temperature	ALM: -10 °C to +55 °C <sup>(3)</sup> CPM: 0 °C to +50 °C
Humidity	95% RH max. at 35 °C, Non Condensing
EMC-EMI, RFI Compliance	
Conducted & Radiated Emission	CISPR 22 (2000) Class B Equipment
Electrostatic Discharge	IEC 61000-4-2 Level 2 (Contact Discharge) IEC 61000-4-2 Level 3 (Air Discharge)
Transient	Complies with IEC 61000-4-4 Class 2
Surge	Complies with IEC 61000-4-5 Class 2

Notes: <sup>(1)</sup> Customer to specify at the time of order <sup>(2)</sup> Solar Panel (optional) <sup>(3)</sup> SSU unit compatible with extreme low temperatures of down to -40°C also available.



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