

# Skyline E90 NB-IoT/GPRS modem

External NB-IoT/GPRS modem



NB-IoT/GPRS technology supported



Automatic meter reading



Power outage notification

## Intelligent and reliable AMR

Skyline E90 is a next generation IoT ready intelligent modem for data transfer between DLMS compliant electronic energy meter and a central server over the NB-IoT/GPRS communication network. Working in conjunction with eWatch readIT (DAS), it provides a cost-effective and reliable solution for automatic meter reading (AMR).

The modem can be programmed for automated scheduled and on demand meter readings, near real time event detection and power outage notification to the central server seamlessly. This extends the role of Skyline E90 beyond traditional modem to intelligent modem with enhanced security measures.



### Application

- Remote meter reading of HT/LVCT, DT, Feeder meter
- Billing and Audit
- Outage monitoring
- DT health monitoring

### Benefits

- Increase the installation efficiency through plug-n-play facility and automatic network parameter registration
- Operational flexibility and support all type of DLMS meter
- Fall back technology support i.e. GPRS
- Efficient and reliable automated data collection and push to Data Acquisition system via AMR.
- Reduced logistical costs: Compact in size and works on single-phase or three-phase supplies.

### Features

- 3GPP standard compliant
- DNS based configuration to avoid IP change management hassle
- IPv4 & IPv6 compatible
- NB-IoT/GPRS modem with built-in three phase power supply
- Data push schedule type: 15 min/Hourly/Daily/Monthly
- Compatible for data collection of DLMS compliant meters
- Automated meter data push to secured FTP server on predefined schedule frequency
- On demand reading facility
- Automatic notification for meter events and supply outage.
- Communication status indication via 3 different colored LED
- Nano SIM supported with sealing provision
- 'Break to open' plastic enclosure to avoid tampering
- Wall & slide based easy installation within meter box.
- Compact size



## Technical specifications

### Electrical

Power supply input	3 x 240 V AC, 50 Hz
Power supply range	50 to 540 V AC
Surge withstand capacity	6 kV as per IEC 61000-4-5
Impulse withstand capacity	6 kV as per IEC 61000-4-5
Isolation safety	4 kV AC, 1 minute
Power supply cable	Integral lead with 1 mtr length
Antenna	Magnetic base wired antenna with 1 or 3 mtr length
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### Compliance

Operating frequency	850/900/1800/2100 MHZ
NB-IoT Standard	3GPP release 13 or above
GSM Compliance	Class 5 (+20dBm ± 2dB) for NB Class 4: (+33dBm ± 2dB) for 900 MHZ Class 1: +30 dBm ± 2dB) for 1800 MHZ
GPRS multi-slot class	Class 10
Safety compliance	IS-13252/ IEC 60950-22/ IEC 62368-1

### Mechanical

Dimensions (W x H x D)	90 x 160 x 37 mm (approx.)
Weight	0.4 kg (approx.)
Enclosure	Break to Open
Connections	9-pin D-sub (female) port for connection to meter SMA connector for antenna
SIM card*	Externally accessible Push type (with sealing arrangement) 1.8/3 V interface
Colored LEDs	3 nos. adjacent LEDs (Red, Orange & Green)
Storage capacity	6 MB data storage

### Environmental

Ingress protection	Ip55
Temperature	-10 .C to +55 .C (operating)
Humidity	95% non-condensing

### Features

- Data push facility
- Meter reading and data storage – Energy, Instantaneous, Load survey, events
- External – retrofit to existing DLMS install base
- Auto detection of network parameters
- Remote and local configuration support

\*A data-enabled SIM card must be procured separately from the service provider for the location where device is to be fitted.

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