# solaredge

## SolarEdge Wi-Fi Communication Solution

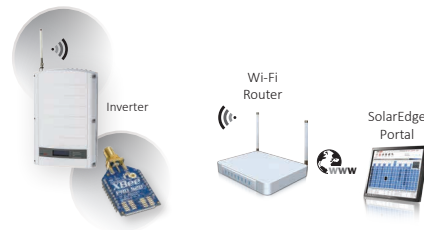SE1000-WIFI01

### Simple Wireless Connectivity

- Connects SolarEdge inverters wirelessly to a Wi-Fi router
- Wi-Fi module installed within the inverter enclosure for outdoor resilience
- Antenna external to inverter for wider range
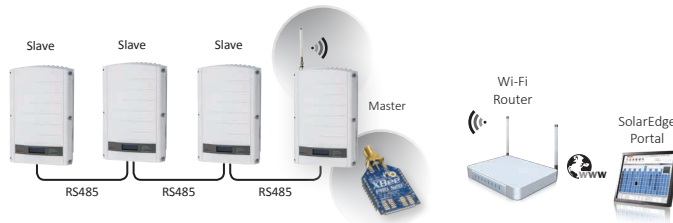- Robust communications with support of 802.11b/g/n standards

Antenna

Wi-Fi module

Inverter    Wi-Fi Router    SolarEdge Portal

USA - GERMANY - ITALY - FRANCE - JAPAN - CHINA - AUSTRALIA - THE NETHERLANDS - ISRAEL        www.solaredge.com

# SolarEdge Wi-Fi Communication Solution

## SE1000-WIFI01

### RF PERFORMANCE

| | | |
|---|---|---|
| Transmit power | 16 | dBm |
| Receiver Sensitivity | -93 to -71 | dBm |
| Antenna connector | RP-SMA | |
| EIRP with antenna | 20 | dBm |
| Outdoor (LOS) range | 400 / 1300 | m / ft |
| Indoor range[1] | 50 / 160 | m / ft |
| Max. power consumption @transmit | 1 | W |

### NETWORKING AND SECURITY

| | | |
|---|---|---|
| Security | WPA-PSK, WPA2-PSK and WEP | |
| Channels | 13 channels | |

### WIRELESS LAN

| | | |
|---|---|---|
| Standards | 802.11b/g/n | |
| Data rates | 1 Mbps to 72 Mbps | |
| Modulation | 802.11b: CCK, DSSS; 802.11g/n: OFDM with BPSK, QPSK, 16-QAM, 64-QAM | |

### INSTALLATION SPECIFICATIONS

| | | |
|---|---|---|
| Antenna, mounting bracket and RF cable | Included | |
| Dimensions (H x W x D) | 22.0 x 32.9 x 4.1 / 0.9 x 1.3 x 0.2 | mm / in |
| Ingress protection | IP65 (IP20 / indoor rated when installed inside Control and Communication Gateway or Firefighter Gateway) | |

### CERTIFICATION

| | | |
|---|---|---|
| EMC Approvals | ETSI(Europe), C-Tick(Australia), Telec(Japan) | |

[1] Approximate values, may differ depending on specific installation conditions

Scenario A: Single inverter connection

Scenario B: Multiple inverter connection with RS485 bus (up to 32 SolarEdge devices)

Scenario C: Multiple inverter Wi-Fi connection