



# SolarEdge Wi-Fi Communication Solution

SE1000-WIFI01

COMMUNICATION



## Simple Wireless Connectivity

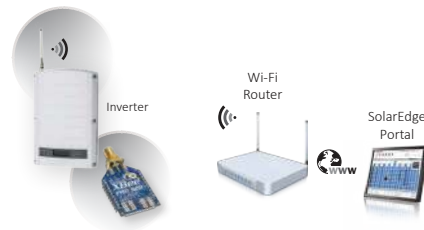
- Connects SolarEdge inverters wirelessly to a Wi-Fi router
- Wi-Fi module installed within the inverter enclosure for outdoor resilience
- Antenna external to inverter for wider range
- Robust communications with support of 802.11b/g/n standards



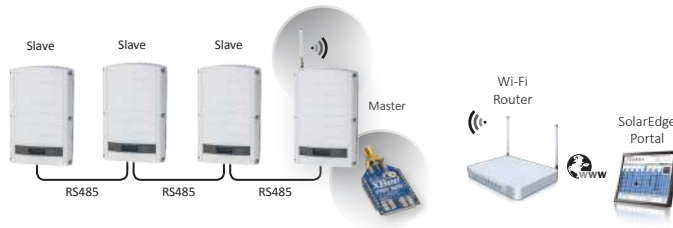
RF PERFORMANCE		
Transmit power	16	dBm
Receiver Sensitivity	-93 to -71	dBm
Antenna connector	RP-SMA	
EIRP with antenna	20	dBm
Outdoor (LOS) range	400 / 1300	m / ft
Indoor range <sup>1</sup>	50 / 160	m / ft
Max. power consumption @transmit	1	W
NETWORKING AND SECURITY		
Security	WPA-PSK, WPA2-PSK and WEP	
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)	

<sup>1</sup> 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

