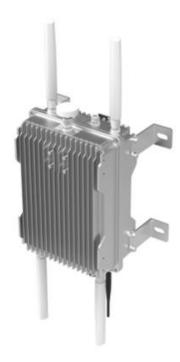![ASKEY logo]

LTE Cat.M1 Small Cell
SFU4120U

ASKEY's Civil IoT Network Solution is a LTE Cat.M1 type civil IoT solution for IoT data collection. It uses licensed 3GPP Band 20 to secure data transmission, and is suitable for civil IoT applications such as environmental monitoring, disaster prevention, smart agriculture, and water resources management. It is cost-efficient and compatible with various IoT sensors, which can help quick deployment of IoT fields.

SFU4120U is the key device to set up a Band 20 LTE Cat.M1 civil IoT access network rapidly, equipped with a commercial 4G backhaul and an Ethernet backhaul.

General	
Type	SFU4120U-D359-RoHS
Dimension & Weight	700 x 232 x 136 mm (w/ Antenna), 6.7Kg
Power	AC 100V~230V
Operation Temperature	0°C ~ 55°C
Operation Humidity	Max 90% (Non-condensing)
Power Consumption	60W in Average, Max 75W
Protection	IP65
Band 20 Smallcell	
Standard	3GPP R11
Category	LTE Cat.M1, LTE Cat.4
Band	B20 (DL: 816~821MHz, UL: 857~862MHz)
Duplex Mode	FDD
Modulation	16QAM, 64QAM
Max TX Power	33dBm (w/ Antenna)
Antenna	2x Omni External Antenna @ 3dBi
Concurrent Active Users	10
Smallcell Features	
Mobility	S1/X2 Handover
Operation &	• Local WiFi w/ Web Browser

Maintenance	• TR-069, TR-181, TR-196v2 • Support Provisioning Procedure, Configuration Management, Performance Management, Fault Management, Safe Software, Software Upgrade/ Downgrade, Factory Reset
Self-Organizing Network	S1 Automatic Discovery and Configuration, Automatic PCI Selection, ANR (Automatic Neighbor Relations)
Synchronization	GPS Synchronization, Network Listening Based Synchronization
Security	SNOW Encryption Engine, AES Encryption Engine, IPSec Tunnel, Secure Boot

Ethernet Backhaul	
WAN Port	RJ45

4G Backhaul	
Standard	3GPP R12
Category	LTE Cat.4
Bands	LTE B1, B3, B5, B7, B8, B28
Duplex Mode	FDD
Max TX Power	26dBm (w/ Antenna)
Antenna	2x Omni External Antenna @ 3dBi
Remote Monitoring	• TR-069 Remote Management Support with TR-181i2 data model • Local Management Interface Status Display, Event Logging, and Traffic Report • Remote Firmware Upgrade • Factory Reset via Remote/Local Management Interface • Password Protected System Management

WiFi	
Standard / Band	IEEE 802.11n / 2.4GHz
Max TX Power	22dBm (w/ Antenna)
Antenna	1x Omni External Antenna @ 3dBi