

SysCORE™ 1000 Family of Cellular Gateways



Perfect for remote access to devices and sensors

Includes local Linux CPU for edge computing and machine learning

Low cost cellular connectivity

Simple to use

5-year warranty

FEATURES

High-performance Cat-4 cellular

Universal support for AT&T, T-Mobile*, and Verizon

Single or dual SIM

Modular upgradeable cellular option

Small size

High reliability

Linux OS

INTERFACE OPTIONS

Cellular, Ethernet, USB, Wi-Fi, Bluetooth options

ZigBee and Z-Wave options*

Serial, GPIO add-on options

Speaker and microphone option

The Systech® SysCORE™ cellular gateway provides reliable remote connectivity for a wide range of applications. Local interface options include Ethernet, USB, Wi-Fi, Bluetooth, Serial, and GPIO. Applications include remote access & control, retail, point-of-sale, building automation, energy management, and connected health. The gateway provides Internet connectivity practically anywhere.

Perfect for system integrators and OEMs, the gateway can be customized for almost any application.

SysCORE is a complete, commercial-grade router. The gateway can be customized to meet the needs of a wide range of network applications. It provides a strong line of defense for network security, including VPN, IPSec, and OpenVPN options.

Linux OS is provided to enable the installation of custom software for edge computing and machine learning. A

software development toolchain is provided to support JavaScript, C, Python, and other Linux programming languages.

To assist in managing large deployments, a cloud-based management platform is provided. This tool provides the ability to remotely update any number of gateways with network configuration changes, software updates, and security enhancements.

Application-specific software may be installed on the gateway to execute locally and is managed by the embedded Linux OS.

Get your IoT application up and running quickly with the SysCORE IoT gateway.

Simply Connect™

SPECIFICATIONS

Wireless Communication Options

Integrated Cellular: LTE Cat-4. Modular options for alternative cellular technologies and upgradability.

SMA cellular antenna connectors (2).

Nano-SIM (4FF), 1.8v and 3v. Option for dual SIM.

Cellular connection manager for robust communications.

Option for GNSS with SMA antenna connector for location services.

Option for Wi-Fi 4 (b/g/n, 2/5/5GHz). Access Point and Client modes. WEP, WPA, WPA2. Up to 32 connections. Reverse female SMA antenna connector. Internal antenna option.

Option for Bluetooth 4.0 (LE & classic), internal antenna.

Option for ZigBee, internal antenna*

Option for Z-Wave Plus, internal antenna*

Wired Communication Options

Ethernet: 10/100 Mbps, RJ-45 port.

Option for dual Ethernet.

External serial port option.

External general purpose I/O (GPIO) option.

Speaker and microphone option

Standard Router Features

NAT, 802.1X Ethernet port security.

Route management.

DHCP Server & client.

Cellular Failover Option

(requires –AR software option)

Failover & fallback among interfaces with selectable priorities.

Ex: Cellular, Wi-Fi, Ethernet.

Advanced Router Options

(requires –AR option)

MAC & IP address whitelist filtering

SPI Firewall with DNAT, SNAT, filter rules

Port Access, Redirection, Forwarding

IP Pass-through

ICMP/Ping flood

Ping Ignore

VPN Options

(requires –VPN software option)

Client or Server VPN

Open VPN & IPsec tunnel, NAT-T, and transport modes

Certificate support

Hash – MD5, SHA

Encryption – AES, 3DES, DES

Power

90-264 VAC power adapter

5 VDC barrel connector

9-24 VDC option

Typical power 1.5W, Max 15W

Processor

1.1 GHz ARM Cortex A7, Quad-core

Linux kernel 3.18, Yocto framework

8 GBytes total Flash

1 GByte total RAM

Management

Subscription free remote management

Local access via Web-based interface

Remote access via Cloud-based interface (HTTP, HTTPS)

Remote firmware upgradable

Auto reboot

CLI over SSH

Integrated help documentation

Integrated TLS1.2/SSL security

Environmental

Operating Temp: -10° to 60°C (not including power supply)

Storage Temp: -30° to 65°C

Operating Relative Humidity (non-condensing) 10%-85%

Storage Relative Humidity (non-condensing) 5%-90%

Size (WDH): 3.9 x 2.5 x 1.0"

Certifications

FCC Class B, CE*

UL, IEC

Cellular: AT&T*, T-Mobile*, Verizon

RoHS - EU Directive 2002/95/EC

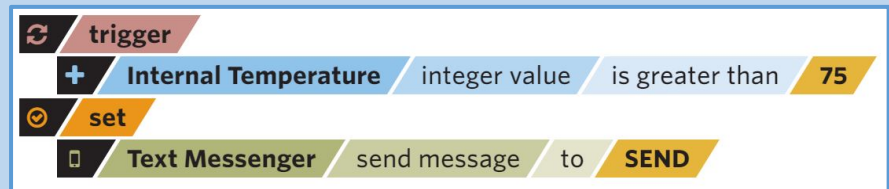
* Note: In development.

Universal refers to multiple North American carriers.

Option Codes for Ordering

Option Tag	Description
CZ4	Universal LTE Cat4
CZ4B	Universal LTE Cat4 (upgradable)
CZMB	Universal LTE CatM (upgradable)
SM2	2 nd cellular SIM slot
G	GNSS (location)
W/WI	Wi-Fi (I for internal antenna)
B/BI	Bluetooth (I for internal antenna)
ZB*	Zigbee
ZW*	Z-Wave Plus
U1	USB port
AU	Speaker & microphone
FB	Function button
MV	Extended voltage (9-24)
SU	Serial RS-232 (via USB)
GPUxxx	GPIO (via USB)
SDxxx	8, 32, 64, 128GB SD
AR	Advanced Routing
VPN	VPN

SysSCRIPT™ Option for IoT Device Control



SysSCRIPT is a scripting solution that can be used to programmatically monitor and control properties of devices communicating through the SysLINK Gateway.

- Powerful scripting language
- Easy remote access via cloud
- Script management for large deployments
- Simple to use
- Scripts executed locally
- No programming experience necessary

Available Models

Model	Ethernet	Cellular
SC-1000	0	No cellular
SC-1100	1	No cellular
SC-1110	1	CZ4
SC-1120	1	CZ4B or CZMB (upgradable)
SC-1200	2	No cellular
SC-1210	2	CZ4
SC-1220	2	CZ4B or CZMB (upgradable)