imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



E220 SERIES







Advanced Failover

Maximise uptime by seamlessly switching between multiple Internet interfaces

Advanced Load Balancing

Spread or bind your data traffic across the multiple Internet interfaces, based on data type, source or destination and the relative WAN connectivity costs



Industrial Automation

mission-critical enterprise applications.





Multiple Tunnelling **Schemes**

Secure your data using a variety of VPN tunnelling schemes, including PPTP, L2TP, OpenVPN, GRE and IPsec



Integrate sensors and thirdparty devices over the RS-485 serial port to provide seamless connectivity to IP networks





D2SPHERE[™] device management services let you monitor, diagnose, control and update your Maestro and FALCOM devices. Information such as signal strength, geographic location, battery state, temperature, device firmware and software versions can be remotely monitored, stored and presented to help you to manage quality and service and prevent downtime.



Highly versatile, reliable and rugged routers

Available in 3G and LTE and with WAN, LAN, Wi-Fi and serial connectivity, the E220 series of M2M routers is designed for

E220 Series specifications

	HARDWARE		INTERFACES		
Material	Brushed aluminium alloy, DIN Rail mountable	LAN	RJ45 connector with Tx / Rx LEDs		
Dimensions	61.25 x 85.75 x 24.5 mm without connectors	RS-485	Full- and half-duplex, 6 kV contact,		
Weight	Approx. 165 g		8 kV air discharge protection / 5-pin, 2.5 mm pitch COMBICON connector		
	Alert / Power / Cellular signal, Network and Activity / Wi-Fi		Dedicated RTC with 20-day retention		
Operating	All Lite models: -20°C ~ +55°C All other models: -30°C ~ +70°C	Wi-Fi	IEEE 802.11b/g/n, 2T2R @2.4 GHz (300 Mbps maximum data rate), RP-SMA antenna connector x 2		
DDR2 SDRAM	All Lite models: 512 Mbit All other models: 1 Gbit	WAN RJ45 connector with Tx / Rx LEDs; user-configurable to LAN #2			
	SOFTWARE	Cellular	SMA antenna connector x 1 (E225 models) or x 2 (E224 and E228 models)		
	Web-based user interface, set-up wizard, console log viewer, save / load configuration, NTP, SMS / OTA remote configuration, TR-069 capable	SIM	Mini SIM 1.8 V / 3.0 V MFF SIM and / or embedded SIM (eUICC) (factory option)		
Redundancy	Ethernet, cellular, Wi-Fi - configurable as failover or load-balancing	Location Services* Either IZat [™] gen. 8C gpsOne (Mk II mode Concurrent GPS, Galileo and either GLONA (factory setting) or Beidou (other models)			
Resilience	Network connectivity watchdog (configurable), internal application watchdog	Digital I/O x 2	Input - detection, 5 V ~ 48 V DC Output - open collector, max. output 200 mA		
Wi-Fi	Client or Access Point (approx. 40-user), multiple SSID, WEP, WPA, WPA-PSK / WPA2-PSK security modes		-pin, 2.5 mm pitch COMBICON connector vith common ground		
M2M services	Compatible with D2SPHERE [™] device management services		POWER		
Security	Zone-based firewall, VLAN, DMZ, HTTPS local and remote connection, SIM PIN	Main Source	Roadworthy** 10.8 V ~ 60 V DC on a 2-pin Micro-Fit [™] 3.0 female connector		
<i>Performance /</i> Fault Management	LAN / Wi-Fi), traffic analysis, ICMP, trace-route,	Alternate source***	Class 3 PD-PoE with seamless fall-back onto the main source		
Pouting	NS lookup	Last Gasp*	Approx. 5-minute via two 96 mWh Li-ion bat- teries (not functional below -10°C)		
кouting	DHCP, static routing, port-forwarding, traffic routing, static/dynamic DNS, DNS proxy, NAT, STP				
VPN	PPTP client, L2TP, OpenVPN client / server / pass- through, GRE, IPsec	Not available on Lite models* 2005 **Compliant with ISO 7637-2:2011 and 2004 as well as ISO 21848 ***Not available on Lite and Mk II models			
The development of Development of the	Madhara DTU ha TCD anna at Madhara na atau				

Industrial Protocols Modbus RTU to TCP support, Modbus master

Model NAME	Territories or Operator(s)	Cellular Type	BANDS	Fallback mode(s)	BANDS	GNSS	P LANNED CERTIFICATIONS	FCS (*)	Order Code
E225 Lite	EMEA, [most of] Asia Pacific	3Gª	1/8	2G	3/8	×	RED, GCF		E225LITE#02
E224	EMEA	LTE cat. 1	3/8/20						E224#38K##38
	Asia Pacific		3/5/8/28	3G [⊾]	1/5/8	same as E228's	RCM, NCC		E224#358S#158
E225	EMEA, [most of] Asia Pacific	. 3G ª	1/8	2G	3/8		RED, GCF		E225#02
	World		1/2/5/8		2/3/5/8		JPA, JRF, NBTC		E225
E228 Mk II	EMEA	LTE cat. 4	1/3/7/8/20/28	3G º; 2G	1/8; 3/8	IZat™ gen. 8C gpsOne	RED, GCF	Apr. '18	E228MKII#02
	Asia Pacific		1/3/5/7/8/28	3G °	1/5/8		RCM, KCC, NCC	May '18	E228MKII#04
	China, India		1/3/5 TDD 40/41	3G°; 2G	1/8; 3/8		CCC, NAL, SRRC	Sep. '18	E228MKII#078
E228	AT&T Wireless, Rogers		2/4/5/17	3G °	2/5	Concurrent GPS, Galileo and either GLONASS (fac- tory setting) or Beidou	FCC, PTCRB,		E228#245DH#25
	<i>User-configurable to</i> Verizon Wireless		4/13	×	N/A		AT&T Wireless, Verizon Wireless		
	Asia Pacific		3/7/28	- ×	N/A		RCM, NCC		E228#37S
	NTT docomo		1/19/21				JPA, JRF		E228#1JL
	KDDI		1/11/18						E228#1BI
	South Korea		1/3/5/7				KCC		E228#1357

Please consult us regarding the models or features shown in grey which are subject to MOQ and other considerations

Uplink / Downlink maximum data rates – 3G: 5.76 / ^(a) 7.2; or ^(b) 10.1; or ^(c) 42.2 Mbps; – LTE cat. 1: 5 / 10 Mbps (FDD); 3.1 / 8.96 Mbps (TDD) – LTE cat. 4: 50 / 150 Mbps (FDD); 35 / 130 Mbps (TDD)

Tel.: +852 3955 0222 Fax: +852 3568 4833

* First customer shipment