






Connect One Embedded module lineup



		Basic WiFi modules		Nano Reach family		Nano Socket family	
							
Category	Feature	Secure Socket iWiFi	Mini Socket iWiFi	Nano WiReach	Nano LANReach	Nano Socket iWiFi	Nano SocketLAN
Core CPU	Use the specified model for chip-based identical specs on main PCB:	CO2128	CO2128	CO2144	CO2144	CO2144	CO2144
Operation modes	Internet Controller mode (AT+i)	•	•	•	•	•	•
	SerialNET	•	•	•	•	•	•
	LAN to WiFi bridging			•	•	•	•
	Embedded IP Routing			•	•	•	•
	PPP to LAN/WiFi bridging	•	•	•	•	•	•
Hardware Interfaces	Serial (up to 3Mbps)	•	•	•	•	•	•
	SPI & USB			•	•	•	•
	MII / RMII			•		•	
Networking Features	TCP/UDP Sockets	•	•	•	•	•	•
	Email send/receive incl. attachments	•	•	•	•	•	•
	Complete FTP client	•	•	•	•	•	•
	HTTP/HTTPS client (GET-POST)	•	•	•	•	•	•
	Telnet/Network time/DHCP client	•	•	•	•	•	•
	DHCP Server	•	•	•	•	•	•
	Routing/NAT/Port forwarding			•	•	•	•
	Web Server (HTTP/HTTPS)	•	•	•	•	•	•
Connectivity support	LAN (Onboard/External)			• (external)	• (onboard)	• (external)	• (onboard)
	Cellular (Serial/USB interface)			•	•	•	•
	Dial Up support			•	•	•	•
	802.11 b/g Wireless LAN	•	•	•		•	
Security features	Embedded Firewall functionality	•	•	•	•	•	•
	SSL3/TLS1 (AES 128/256 & more)	•	•	•	•	•	•
	WEP/WPA/WPA2/Enterprise Mode	•	•	•		•	
Hardware	Size (L x W x H in mm)	64.5 x 27.4 x 6.6	41.0 x 31.5 x 5.0	33 x 17 x 5	35 x 24.88 x 17.4	45 x 21 x 7	35 x 24.88 x 17.4
	PCB Connector/Package	Socket Form	6x2 header	30 pin	30 pin	15x2 male header	10x2 male header
	Power consumption in sleep mode	8mA	30µA	8mA	30mA	8mA	30mA
	Antenna/LAN Connector	u.FL mini coax	Reverse SMA	u.FL mini coax	RJ-45 + LEDs	Onboard antenna	RJ-45 + LEDs
Part numbers	Module part number	iW-SM2128MW	iW-SM2128M1	iW-SM2144N1	iL-SM2144N1-I	iW-SM2144N2	iL-SM2144H-I
	Evaluation board	II-EVB-361MW	II-EVB-362MW	II-EVB-363MW	II-EVB-363ML	II-EVB-363MO	II-EVB-363MS

Notes:

1. All Connect One products are RoHS and operate on 3.3V +/-10%
2. All Connect One products use the same AT+I programming language, allowing customers to easily move from modules to lower cost chip based implementations.

Connect One Embedded chip lineup



Category	Feature	CO2144	CO2128	CO2064
Operation modes	Internet Controller mode (AT+i)	•	•	•
	SerialNET	•	•	•
	LAN to WiFi bridging	•	•	
	Embedded IP Routing	•	•	
	PPP to LAN/WiFi bridging	•	•	
Interfaces	Serial (up to 3Mbps)	•	•	•
	SPI & USB	•	•	
	MII / RMII	•	•	
Networking Features	TCP/UDP Sockets	•	•	•
	Email send/receive incl. attachments	•	•	
	Complete FTP client	•	•	•
	HTTP/HTTPS client (GET-POST)	•	•	•
	Telnet/Network time/DHCP client	•	•	•
	Routing/NAT/DHCP Server	•	•	
	Web Server (HTTP/HTTPS)	•	•	
Connectivity support	LAN (with external RJ45 connector)	•	•	•
	Cellular (Serial/USB interface)	•	•	
	Dial Up support	•	•	
	802.11 b/g Wireless LAN	•	•	
Security features	Embedded Firewall functionality	•	•	•
	SSL3/TLS1 (AES 128/256 & more)	•	•	•
	WEP/WPA/WPA2/Enterprise Mode	•	•	
	Multiple sleep modes	•	•	
Hardware	Size (L x W x H in mm)	10 x 10 x 1.4	14 x 20 x 1.4	10 x 10 x 1.4
	PCB Connector/Package	144 ball BGA	128-pin LQFP	64-pin LQFP
Part numbers	Chip part number	CO2144/48LI-3	CO2128/48LI-3	CO2064/48LI-3
	Evaluation board	II-EVB-630W	II-EVB-630W	II-EVB-600W

Notes:

1. All Connect One chips are RoHS and industrial temperature range (-40° to 85°C or -40° to 185°F) and operate on 3.3V +/-10%
2. All Connect One products use the same AT+I programming language, allowing customers to easily move from modules to lower cost chip based implementations.