IUSB-9041-WG

>> 4-port USB2.0 to 802.11 b/g and 1-port 10/100TX IP USB Server

- High Speed Air Connectivity: WLAN interface support up to 54Mbps link speed
- Highly Security Capability: WEP/WPA/WPA2/TKIP supported
- Network-enabled USB hub
- Access and monitor USB peripheral devices over TCP/IP
- Works with existing POS or other application software
- USB 1.0 / 1.1 / 2.0 Support
- Powerful Windows utility USB-Tool
- Virtual USB driver support
- Multiple units supported per server









> Features

- High Speed with a maximum link speed of 54Mbps With IEEE802.11 b/g dual mode capability
- High Ssecurity Capability with WEP, WPA, WPA2and TKIP
- Data rates up to 480 Mbps per USB port
- RJ-45 Ethernet to 4 USB ports
- 500 mA downstream power per USB port
- USB 1.0 / 1.1 / 2.0 Support
- USB Hub support to extend device

- Static/DHCP IP address per unit
- Multiple units supported per server
- Powerful configuration Windows utility USB-Tool
- 10/100Base-TX Ethernet support
- Rigid IP-30 housing design
- Din-Rail and panel mounting enabled

> Introduction

IUSB-9041-WG is a network-enabled USB hub. It is a powerful remote networking solution to utilize, making it easy to connect USB devices anywhere through the network, while eliminating the need for locally-attached host PCs. IUSB-9041-WG provides four USB 2.0 ports, which deliver the same Plug and Play experience as onboard USB ports. Software drivers are loaded onto a host PC or server, enabling remote devices to communicate with the host PC, without changing existing application software. Peripheral devices can be centrally managed and monitored from a remote server or PC via an IP address. IUSB-9041-WG is also compatible with Bulk or Interrupt type USB devices such as bar-code scanners, printers, fingerprint scanners, mice, pole displays, card readers, USB flash drives, web camera, and more. In addition, bundled powerful Windows utility – USB-Tool can be used to discovery, mapping USB servers in the LAN and WLAN. USB-Tool also provides security functions, like Access IP list control and friendly wizards for group IP setting and firmware upgrade. User can also use web interface to manage IUSB-9041-WG remotely from internet.

> USB-Tool

In practical operation of IUSB-9401, users can access USB devices through the TCP/IP network remotely without the connecting USB device locally. For logistic application, zero clients can avoid the central control PC been damaged and reduce total investment. Windows utility (USB-Tool) is supported for configuration and management remotely. This utility is very helpful for you to manage and monitor all of the USB servers on the network.

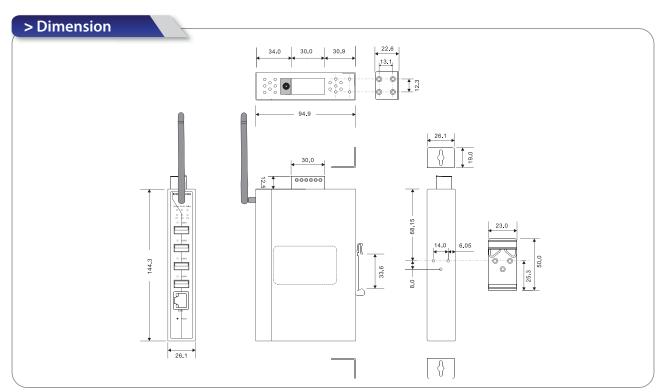


USB remote connectivity





USB-Tool : Monitoring and Configuration interface



(Unit=mm)

> Specifications

Physical Ports 10/1008ase-TIXI Port in RJ-45 Auto MDI/ MDIX 1 1 1 1 1 1 1 1 1	ORing Media Converter	IUSB-9041-WG			
MDIX USB Ports Connector USB 2.0 x 4 Operation Mode 1.0 / 1.1 / 2.0 support WLAN Feature Operating Mode Antenna Connector Reverse SMA Radio Frequency Type DSSS Modulation EEEB02.11b; CCK, DQPSK, DBPSK, EIEEB02.11g; OFDM with BPSK, QSK, 16CQ, MA, 64Q, MA, 64Q, MA Frequency Band Frequency Band EEEB02.11b; C2 x 12 x 24 x 26 x 12 x 1 channels) Europe CE/ETSI: 2.412 - 2.42 2 x 12 x 12 x 12 x 12 x 13 x 14	Physical Ports				
Connector USB 2.0 x 4 Operation Mode 1.0 / 1.1 / 2.0 support WLAN Feature Operating Mode Client mode Antenna Connector Reverse SMA Radio Frequency Type DSSS Modulation EEE802.11b: CCK, DOPSK, DBPSK EEE802.11b: CCK, DOPSK, DBPK EEE802.11b: CCK, DOPSK, DBPK EEE802.11b: CCK, DOPSK, DBPK EEE802.11b: DCCK, DCCK, DCCK EEE802.11b: DCCK, DCCK, DCCK EEE802.11b: DCCK, DCCK EEE802.11b: DCCK, DCCK EEE8		1			
Operation Mode	USB Ports				
WLAN Feature Operating Mode Client mode Antenna Connector Reverse SMA Radio Frequency Type DSSS Modulation EEEB02.11b: CCK, DQPSK, DBPSK EEEB02.11b: CCK, DQPSK, DBPSK EEEB02.11b: CCK, DQPSK, DBPSK EEEB02.11g: OFDM with BPSK, QPSK, 16QAM, 6QAM Frequency Band America/FCC: 2412–2462 GHz (11 channels) Europe CEFETS: 2412–2472 GHz (13 channels) Europe CEFETS: 2412–2472 GHz (13 channels) EEEB02.11b: 1/2 / 55 / 11 Mbps EEEB02.11b: 1/2 /	Connector	USB 2.0 x 4			
Operating Mode Client mode Antenna Connector Reverse SMA Radio Frequency Type DSS Modulation IEEE802.11g. OFDM with BPSK, QPSK, 16QAM, 64QAM Frequency Band America/FCC: 2412–2.462 GHz (11 channels) Europe CE/ETSI: 2412–2.472 GHz (13 channels) Transmission Rate IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps IEEE802.11b: 1/	Operation Mode	1.0 / 1.1 / 2.0 support			
Antenna Connector Reverse SMA Radio Frequency Type DSSS Modulation IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM Frequency Band America/FCC: 2.412~2.462 GHz (11 channels) Europe CE/ETSI: 2.412~2.472 GHz (15 channels) Europe CE/ETSI: 2.412~472 GHz (15 channels) IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps IEEE802.11b: 6/ 9/ 12/ 18/ 24/ 36/ 48/ 54 Mbps Transmit Power IEEE802.11b: 6/ 9/ 12/ 18/ 24/ 36/ 48/ 54 Mbps, PER< 10% WEP: (64-bit, 128-bit key supported) WPA: WPA: 802.11i (WEP and AES encryption) PSK (256-bit key pre-shared key supported) WPA: WPA: 802.11i (WEP and AES encryption) PSK (256-bit key pre-shared key supported) Tikle encryption Tikle encryption Tikle encryption Power shared key supported) Tikle encryption Ti	WLAN Feature				
Radio Frequency Type DSSS Modulation IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, floQAM, 64QAM Frequency Band America/FCC: 2.412–2.462 GHz (11 channels) Europe CE/ETSI: 2.412–2.472 GHz (13 channels) Transmission Rate IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps Transmit Power IEEE802.11b: 1/ 28 / 24 / 36 / 48 / 54 Mbps Receiver Sensitivity -81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10%	Operating Mode	Client mode			
IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM	Antenna Connector	Reverse SMA			
Modulation EEERO2.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM 16QAM, 64QAM, 64QAM	Radio Frequency Type	DSSS			
Europe CE/ETSI: 2.412~2.472 GHz (13 channels) Transmission Rate IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps IEEE802.11b: 1/ 2/ 5.6/ 14 M	Modulation	IEEE802.11g: OFDM with BPSK, QPSK,			
Transmit Power IEEE802.11b/g: 18dBm Receiver Sensitivity -81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10% WEP: (64-bit , 128-bit key supported) WPA2: 802.11i(WEP and AES encryption) PSK (256-bit key pre-shared key supported) TKIP encryption Networking OS support Windows 2000, XP, 2003, Vista ICP/IP IP, ICMP, ARP, RARP, TCP, UDP, HTTP Browser IE 6.0 or above LED Indicators Power indicator Power LED x 3 Ready indicator Green : WLAN Link/Act. Relay indicator Green for fault relay 10/100TX RJ-45 port indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Frequency Band	· · · · · · · · · · · · · · · · · · ·			
Receiver Sensitivity -81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10% WEP: (64-bit ,128-bit key supported) WPA: WPA: 802.11i (WEP and AES encryption) PSK (256-bit key pre-shared key supported) TKIP encryption Networking OS support Windows 2000, XP, 2003, Vista TCP/IP IP, ICMP, ARP, RARP, TCP, UDP, HTTP Browser IE 6.0 or above LED Indicators Power LED x 3 Ready indicator Green for ready WLAN indicator Green: WLAN Link/Act. Relay indicator Green for fault relay 10/100TX RJ-45 port indicator Green for roush port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Transmission Rate	·			
Encryption Security WEP: (64-bit ,128-bit key supported) WPA: WPA2 : 802.11i(WEP and AES encryption) PSK (256-bit key pre-shared key supported) TKIP encryption Networking OS support Windows 2000, XP, 2003, Vista TCP/IP IP, ICMP, ARP, RARP, TCP, UDP, HTTP Browser IE 6.0 or above LED Indicators Power indicator Power LED x 3 Ready indicator Green for ready WLAN indicator Green : WLAN Link/Act. Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Transmit Power	IEEE802.11 b/g: 18dBm			
Encryption Security WPA: WPA: WPA: WPA: WPA: WPA: WPA: WPA:	Receiver Sensitivity	-81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10%			
OS support Windows 2000, XP, 2003, Vista TCP/IP IP, ICMP, ARP, RARP, TCP, UDP, HTTP Browser IE 6.0 or above LED Indicators Power indicator Power LED x 3 Ready indicator Green for ready WLAN indicator Green : WLAN Link/Act. Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Encryption Security	WPA: WPA2: 802.11i(WEP and AES encryption) PSK (256-bit key pre-shared key supported)			
TCP/IP IP, ICMP, ARP, RARP, TCP, UDP, HTTP Browser IE 6.0 or above LED Indicators Power indicator Power LED x 3 Ready indicator Green for ready WLAN indicator Green: WLAN Link/Act. Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Networking				
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Power indicator Power LED x 3 Ready indicator Green for ready WLAN indicator Green: WLAN Link/Act. Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	TCP/IP	IP, ICMP, ARP, RARP, TCP, UDP, HTTP			
Power indicator Ready indicator Green for ready WLAN indicator Green: WLAN Link/Act. Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Browser	IE 6.0 or above			
Ready indicator Green for ready WLAN indicator Green: WLAN Link/Act. Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	LED Indicators				
WLAN indicator Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Power indicator	Power LED x 3			
Relay indicator Amber for fault relay 10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Ready indicator	Green for ready			
10/100TX RJ-45 port indicator Green for port Link/Act. Amber for data transmitted. USB indicator Green for USB port activated Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	WLAN indicator	Green : WLAN Link/Act.			
USB indicator Fault contact Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Relay indicator	Amber for fault relay			
Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	10/100TX RJ-45 port indicator	Green for port Link/Act. Amber for data transmitted.			
Relay Relay output to carry capacity of 1A at 24VDC Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	USB indicator	Green for USB port activated			
Power Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Fault contact				
Input Power Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack	Relay	Relay output to carry capacity of 1A at 24VDC			
	Power				
Power Consumption (Typ.) TBD	Input Power	Triple DC inputs. 12 ~ 48 VDC on 6-pin terminal block and power jack			
	Power Consumption (Typ.)	TBD			

Physical Characteristic				
Enclosure	IP-30			
Dimension (W x D x H)	26.1(W) x 94.9(D) x 144.3(H) mm (1.03x3.74x5.68 inch.)			
Weight (g)	TBD			
Environmental				
Storage Temperature	-40 to 85°C(-40 to 185°F)			
Operating Temperature	-10 to 60° C (14 to 140° F) Extended temperature model (-40 to 70° C, -40 to 158° F, -T model)			
Operating Humidity	5% to 95% Non-condensing			
Regulatory approvals				
EMI	FCC Part 15, CISPR (EN55022) class A			
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11			
Shock	IEC60068-2-27			
Free Fall	IEC60068-2-32			
Vibration	IEC60068-2-6			
Safety	EN60950			
Warranty	5 years			

> Ordering Information



Available Model	Model Name	Description	Operating Temperature
	IUSB-9041-WG	Industrial 4-port USB2.0 to 802.11 b/g and 1-port 10/100TX IP USB Server	Regular model (-10 to 60°C)