



## ComPoint Butterfly

The ComPoint Butterfly is designed users in SME and SoHo small-scale companies with a wireless network. The device supports the Standard IEEE 802.11g (54 Mbps). Via the WPA enterprise mode, it attains the highest possible security level in private and business environments. Factory default settings put the ComPoint Butterfly in the access point mode. With firmware upgrade from version 2.0 onwards the device can also be operated as an access client. Devices which are only equipped with one Ethernet port or devices on which no drivers can be integrated easily and quickly into the corporate network. For data transmission across broader ranges the ComPoint Butterfly supports WDS (Wireless Distribution System). WDS enables Wireless Point-to-Multipoint Bridging and Repeater functionality with WEP encryption. The seamless connection to the LAN is supported via 10/100BaseT interface Auto Crossover (Auto-MDI/ MDI-X). The ComPoint Butterfly addresses customers working with a small budget, who do not want to do without security, stability and functionality.

### Hardware Features

Feature	Description
Certifications	R&TTE Directive 1999/5/EG; EN 60950 (IEC60950); EN 300 328; ETSI EN 301 489-1/17
LAN Interface	1 x 10/100 MBit/s Ethernet Twisted Pair, autosensing, auto crossover (MDI/MDI-X)
Radio module:	One internal radio module
External antenna	One 5 dBi antenna with RSMA plug.
WLAN	max. 100mW Output Power e.i.r.p.
Power supply	External AC/DC converter 12 V DC, 500mA
Status LEDs	Status+Activity for WLAN and Ethernet, Power
Wall mounting kit	Optional
Dimensions	Approx. 16cm by 10cm by 3.6cm (w by h by d)
Weight	Approx. 200 g
Power consumption	Max. 6W
Environment	Temperature range: operational 0°C to 40°C, storage -40°C to 70°C; humidity 20% - 95% (non condensing)

### Software Features

Feature	Description
Ethernet Blue Book	Supported by all ComPoint Variations.
AccessClient Mode: Number of	recommended: up to 16
Statistics	Excessive statistics for WLAN and LAN
DHCP	Client
Power Management For Clients	by Powersave buffering.
IAPP	Roaming with Artem Inter-Access-Point-Protocol (IAPP)

**Wireless LAN**

Feature	Description
Operation Modes	Either Access Point or Ethernet Adapter Mode (Access Client) in Ad-Hoc or Infrastructure Mode
Wireless Distribution Service (WDS)	yes, with WEP encryption
Automatic Rate Selection (ARS)	available
Wireless LAN Standards	IEEE802.11 g,b
Frequency range	2,4 - 2,4835 GHz
Channels	Up to 14 adjustable, depends on country setting
Data rates	Modulation schemes: 11, 5.5, 2 and 1Mbps (DSSS); 54, 48, 36, 24, 18, 12, 9 and 6Mbps (OFDM)
Transmit speed	Transmit Speed Auto fallback or selectable fixed rate.
WLAN Modes	IEEE 802.11 Compatibility Mode: 11b Only, 11g Only, Mixed, Mixed-Long Range, Mixed-Short Range
Nitro Mode	available
Output power	adjustable, output max. 15 dBm, +/- 1 dBm, max. 100mW, 20dBm e.i.r.p.
Delay Spread @ 2.4GHz	PER 8% : 1Mbps 250ns; 2Mbps 250ns; 5.5Mbps 100ns; 11Mbps 100ns. PER 10%: 6Mbps 1000ns; 9Mbps 540ns; 12Mbps 680ns; 18Mbps 420ns; 24Mbps 320ns; 36Mbps 210ns; 48Mbps 160ns; 54Mbps 120ns
Receiver Sensitivity	PER 8%: 1Mbps -87dBm; 2Mbps -84dBm; 5.5Mbps -83dBm; 11Mbps -80dBm; PER 10%: 6Mbps -82dBm; 9Mbps -81dBm; 12Mbps -79dBm; 18Mbps -77dBm; 24Mbps -74dBm; 36Mbps -70dBm; 48Mbps -66dBm; 54Mbps -65dBm
Roaming	Artem roaming protocol.
inter traffic blocking (disable)	suppresses direct communication between WLAN stations within one radio cell.
AccessPoint mode: Table of associated Clients	Display of associated WLAN clients: MAC address, IP address, associated time, data rate, signal strength, packet counter Tx and Rx
AccessClient mode: Table of AccessClient Mode: Scan List	Tabelle of connected Ethernet Clinets with MAC Address and IP Address Display of all AccessPoints in range with network name (SSID), encryption, signal strength
Network Name (SSID)	adjustable
Broadcast	Broadcast-SSID: Enable/disable.
Country Specific settings	Operating Channels According to the regulatory domain possible. Supports IEEE802.11d
RTS/CTS Threshold	adjustable
Fragmentation Threshold	adjustable
DTIM Period	adjustable
Beaken Period	adjustable
Radio on/off	Radio module can be switched on/off remotely

## Maintenance and Service

Feature	Description
SNMP	Basic SNMP functionality available
Setup Tool	Integrated, menu-based, intuitive setup program, Artem CPM
Configuration	Via HTTP
Documentation	English documentation on CD
Guarantee	2-year manufacturer's guarantee
Configuration Reset	Passwords and IP settings aren't deleted when resetting the configuration - or: reset to factory. default: complete configuration will be deleted.
	default: complete configuration will be deleted.
Reboot	Device can be rebooted remotely
Product identity and Versions	available
Configuration Access	Can be restricted to 'ethernet only'
Discovery Function	Artem Discovery Protocol (ADP), works accross subnet borders.

## Security

Feature	Description
WEP/WPA in Access Point mode:	WEP64 (40 Bit key), WEP128 (104 Bit key), WPA Personal (PSK), WPA Enterprise
WEP/WPA in Access Client mode:	WEP64 (40 Bit key), WEP128 (104 Bit key), WPA Personal (PSK)
IEEE802.11i Authentication and	802.1x/EAP-MD5, 802.1x/EAP-TLS, 802.1x/EAP-TTLS, 802.1x/EAP-PEAP, Key
Encryption in Access Point mode:	Management, PSK/TKIP Encryption, AES Encryption, 802.1x/EAP
IEEE802.11i Authentication and	'802.1x/EAP-MD5
802.1x Reauthenticatoin Timer	available
RADIUS	Central check of access authorization at a RADIUS server (1x Authentication)
Password Protection	Access control for admin level
Access Control List (ACL):	Local for up to 16 MAC addresses