Specifications

Radio Guiding Standard	CEPT/ERC Rec. 14-03	
Frequency Band	Base Station	
	Transmit: A: 3.50 -3.54	
	B: 3.53- 3.57	
	C: 3.56 - 3.60	
	Receive: A: 3.40-3.44	
	B: 3.43- 3.47	
	C: 3.46 - 3.50	
Total Output Power	From Base Station Up to 27 dBm for	r 64 QAM modulation, up to 35 for
	GFSK modulation	
	From WALKair TS = 18dBm, from BreezeACCESS CPE up to 28,	
Consistent Efficiency	from BreezeACCESS OFDM up to 20 dBm 2.5 bits/sec/Hz	
Spectral Efficiency		
Modulation & Coding Technique	64 QAM @ Trellis Coding Modulation	
	64 QAM to QPSK for Collocated OFDM (Viterbi Decoder)	
Radio Access Method	Multi Carrier-TDMA/FDD (WALKair carriers)	
Nadio Access Method	FH-CDMA (BreezeACCESS carriers)	
Receiver Sensitivity and Capacity	WALKair carriers:	-87dBm (@ BER 10-9)
	BreezeACCESS GFSK carriers	-93dBm @ 1Mbps
	(@ BER 10 ⁻⁶)	-86dBm @ 2Mbps
	· /	-77dBm @ 3Mbps
	Collocated BreezeACCESS OFDM Ca	· · · · · · · · · · · · · · · · · · ·
	3.5 MHz 1.75 MHz	
	2 Mbps -94 1 Mbps -97	
	4 Mbps -91 2 Mbps -94	
	8 Mbps -85 4 Mbps -86	
	12 Mbps -79 6 Mbps -82	
Antenna Size	50x15x7 cm.	
Antenna Gain	13.5 dBi (90°), 15.5 dBi (60°), at the	e CPE side 18 dBi (18')
Standard Compliance	EN 302 085, class CS3, TM4	
Interfaces		
Capacity	3 F1 or V.35/X.21 Interface modules	s per BS-BU, up to 4 Mbps per BS-BU
Capacity	1 Ethernet interface per AU , up to 3 Mbps	
	1 Etherent interface per Collocated OFDM AU, up to 12 Mbps (3.5MHz Channel)	
E1	Symmetrical-pair 120 Ohm balanced	
	Input signal bit rate: 2048 I	kbit/s ±50 ppm.
	Line code: HDB3.	
	Frame Structure: CCITT	G.704 _5 and _2.3 with or
	withou	ut CRC-4, operator selected
		G.823, ITU-T Rec. G.736 and 431
		0 011,
		Rec. G.703, _6.
V.35 / X.21	Data rate: N x 64Kb/s, up to 2.048N	
	V.35 mode:	CCITT Rec. V.35 (Red book)
		. ,
		Balanced: Annex II
	V 21 mode	Balanced: Annex II Unbalanced: ITU-T Rec. V.28
Félorent	X.21 mode:	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21
	Indoor units: 10BaseT, (RJ-45) with 2	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21
		Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21
AU Monitor	Indoor units: 10BaseT, (RJ-45) with 2	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21
AU Monitor Nechanical	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Nechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit)	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs
AU Monitor Nechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit)	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit,	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna)	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg.	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Mechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power 3S-BU and RFU	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg
AU Monitor Mechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power 3S-BU and RFU AU	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power 3S-BU and RFU AU AU SS-SH	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power 3S-BU and RFU AU AU SS-SH Environmental	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical 3S-BU (Indoor Unit) 3S-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power 3S-BU and RFU AU AU SS-SH Environmental	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical 3S-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C Outdoor: -5°C to 45° C	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical 3S-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature Operating Humidity	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C Outdoor: -5°C to 45° C	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature Operating Humidity Standards compliance	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C Outdoor: -5°C to 45° C	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature Operating Humidity Standards compliance EMC	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C Outdoor: -5°C to 45° C 5% to 95% non-condensing.	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature Operating Humidity Standards compliance EMC Safety	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C Outdoor: -5°C to 45° C 5% to 95% non-condensing. EN 300-385, FCC Part 15	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded
Ethernet AU Monitor Mechanical BS-BU (Indoor Unit) BS-SH (Indoor Unit) RFU (Outdoor Unit) RFU (Outdoor unit, excluding antenna) Power BS-BU and RFU AU BS-SH Environmental Operating Temperature Operating Humidity Standards compliance EMC Safety Environmental Wind loading	Indoor units: 10BaseT, (RJ-45) with 2 Indoor units: 3-pin low profile Width: 48cm (19"), Height: 4.4cm (Width: 48cm (19"), Height: 13.2cm (3 Dimensions: 36x15x24 cm Weight 10Kg. Voltage: -48VDC, 40W per BS-BU Heat dissipation: 36W 25W -48VDC, 200W for fully equipped st Indoor: 0°C to 40° C Outdoor: -5°C to 45° C 5% to 95% non-condensing. EN 300-385, FCC Part 15 EN 60950, UL 1950	Balanced: Annex II Unbalanced: ITU-T Rec. V.28 ITU-T Rec. X.21 2 embedded LEDs 1U), Depth: 23cm, Weight: 3Kg U), Depth: 26cm, Weight: 6Kg fully loaded

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AlvariBase

The All-in-one Broadband Wireless Access Solution

Service providers choosing a broad market penetration strategy have, in the past, faced challenges in finding a solution that can address the entire market - from high end residential through SOHO and small business, all the way up to medium sized businesses and corporate branch offices. No Broadband Wireless Access solution could provide, at the same time, low cost IP connectivity alongside carrier class corporate voice and data solutions. The introduction of AlvariBase changes the BWA rules. Now a service provider can provide the entire range of BWA services - from Internet access through leased lines and PBX connectivity - to the entire addressable market, from a single infrastructure.





Product Highlights

- Demand-based build-out Base Station, Multi Carrier Radio, easy installation and low cost of ownership enables rapid market penetration.
- Single platform combines all communication and information technologies, including IP, Ethernet, Frame Relay, Leased Line, POTS and ISDN. Packet switching technology optimized for IP-based applications and "always on" connectivity.
- Efficient backhall connectivity guarantees superior coverage for mobile and fixed narrowband wireless system Base Stations.
- Highest spectral efficiency 2.5 Bit/Sec/Hz with WALKair Carriers
- IP QoS/CoS mapping to ATM QoS at the Base Station eliminates the need for multiple rooftop outdoor units.
- QoS using IETF standard in differential service (diffserv). Supporte different Modulastions according to the type of CPE, from 64 QAM to GFSK
- Fast packet-based data transmission and toll quality for delay and jitter sensitive telephony.
- Easy-to-use SNMP-based remote management system, enabling simple unit configuration and multiple simultaneous unit upgrading.

AlvariBase components

Base Station Equipment

The AlvariBaseTM Station Equipment is comprised of the following elements:

Outdoor Equipment

• WALKair Sector Antenna

The antenna is a sector type. It covers an angular area at 900, 600 or 450. Several sector antennas (4, 6 or 8), each with its own RFU, may cover a whole service area (cell). Each sector antenna is connected to an RFU through an RF Coaxial Cable

• WALKair RFU-BS

The RFU converts the IF to RF, amplifies the signal to its right level and transmits it through the antenna. It is mounted near the antenna. The RFU is connected to the indoor equipment via a single coax cable. The RFU is capable of transmitting and receiving up to 8 different combined carriers, the total transmitted power per RFU when using both systems is 27 dBm.

Indoor Equipment

• IF-MUX

The IF-MUX combines the IF signals from and to the various BUs and AUs and 48VDC into a -single coax cable that goes up to the rooftop, where the RF and antenna subsystems are located. Up to 8 BUs and AUs may operate together combined by the same IF-MUX.

• BS-BU

The BS-BU connects a specific WALKair carrier to the backbone through one ore more out of the three existing interfaces, V35/X21, E1 or Ethernet. The network interfaces of the BS-BU are: E1, E1-FR, V35/x.21, V35/X21 - FR and Ethernet Port.

Each BU contains an Ethernet port for Network Management purposes and a serial LCI port for local craft terminal.

• BS-SH / BS-SH-OF

Base Station Shelf and the BS-PS Base Station Power Supply module. The BS-SH is a 3U shelf suitable for installation in 19" racks or for desktop mounting.

The BS-SH can house up to six active BS-AU Access Unit modules and one or two BS-PS Power Supply modules. Two additional slots can be used to accommodate spare BS-AU modules, or can be used for future use by other modules. The BS-PS is powered from a -48 VDC power source. Power supply redundancy is supported through the optional use of a second BS-PS module.

• BS-AU / BS-AU-OF

The AU connects a specific BreezeACCESS carrier to the backbone through its 10BaseT Ethernet port.

The network interface of the AU is a 10BaseT connector. Management of AU is done in-band through TELNET protocol or SNMP The AU units are installed vertically inside the BS-SH The BS-AU-OF can be installed side by side with BS-AU , the Radio of the OFDM system is collocated in the same sector with WALKair multi

carrier radio.

AlvariBase CPEs

The range of CPEs varies from the typical MuliService CPE (WALKair) with up to three different telecom port using a TDMA air protocol, to the Data and Voice CPEs using IP protocols and VoIP (BreezeACCESS GFSK) and ending with the high capacity OFDM CPE (BreezeACCESS OFDM) which allows cheap and easy installation taking advantage of its Orthogonal Frequency Division Multiplexing (OFDM) and its high capacity throughput thanks to its high modulation techniques and adaptive rate (64 QAM, 16QAM, QPSK and BPSK)

WALKair, The Multi Service TS

Terminal Station-Base Unit (TS-BU)

The TS-BU interfaces between the CPE and the WALKair TS RFU/Antenna, using the TDMA protocol to handle traffic to and from the BS. Supporting up to three interface cards, the TS-BU delivers a wide range of advanced voice and data services. The TS-BU is connected to the TS RFU/Antenna via a single coaxial cable, and can be easily mounted in a rack or on the wall, or fit conveniently on a desk. Once the IF signal reaches the RFU, it is converted to RF. Each BU contains up to three telecom interfaces, such as E1, V35/X21, Ethernet10/100BaseT and ISDN-BRI, providing diverse voice and data services. The interface cards are installed on daughter boards, enabling maximum flexibility. Each BU contains an LCI port to be used by the local craft terminal for installation and maintenance purposes. The TS is powered either by a DC standard source (48V) or an

AC source to the Indoor Unit.



BreezeACCESS GFSK, The Data and Voice CPE

BreezeACCESS XL CPEs - Crafting customer connectivity

The BreezeACCESS XL series of Customer Premises Equipment (CPE) features both data plus voice and data-only capabilities.

The BreezeACCESS XL CPEs connect to the subscriber's data equipment via a standard IEEE 802.3 Ethernet 10-BaseT (RJ 45) interface. Telephony services are supported using a standard POTS (RJ 11) interface connected directly to the subscriber's telephone.



Desktop Units

Optimized for indoor installations, the SU-R Subscriber Units are simple to install, reducing time and cost of installation. The convenient and compact unit fits easily on a desktop or can be mounted on the wall. With 28 dBm power output at the antenna port, the SU-R feature several antenna options, as follows:

• Flat panel antenna models: Feature 17 dBi gain for external installation.

• Wall mountable antenna models: Feature 7 dBi gain and include 3 meters of antenna cable, for indoor or outdoor installation. Models with dual 4 dBi omni antenna are also available.



Indoor/Outdoor Units

The BreezeACCESS XL indoor/outdoor option includes an indoor desktop or wall-mountable unit and an outdoor antenna and radio unit. Data, power, management and control signals are transmitted from the indoor unit to the outdoor unit via a coaxial cable.

The outdoor units feature two antenna options, delivering enhanced network flexibility, as follows:

• **SU-A units:** Comprise a radio module and integrated flat panel antenna.

• **SU-E units:** Include a radio module and RF connector for a separate external antenna.



SU-A

BreezeACCES OFDM, The High Capacity, non Line of Sight CPE

Indoor/Outdoor Units

The BreezeACCESS OFDM indoor/outdoor Subscriber Units include an indoor desktop or wall-mountable unit, containing the processor, modem, Ethernet interface



and the IF radio component. The indoor unit is powered by a desktop Power Supply Unit, supplying 24 Volts.

The outdoor unit comprises a radio module with either an integrated flat panel antenna or a connector for an external antenna. The indoor and outdoor units are connected via a 50-ohm coaxial

Intermediate Frequency (IF), relaying 140 MHz IF signals between the units. Data, power, management and control signals are transmitted between the indoor unit and the outdoor unit via this coaxial cable.

