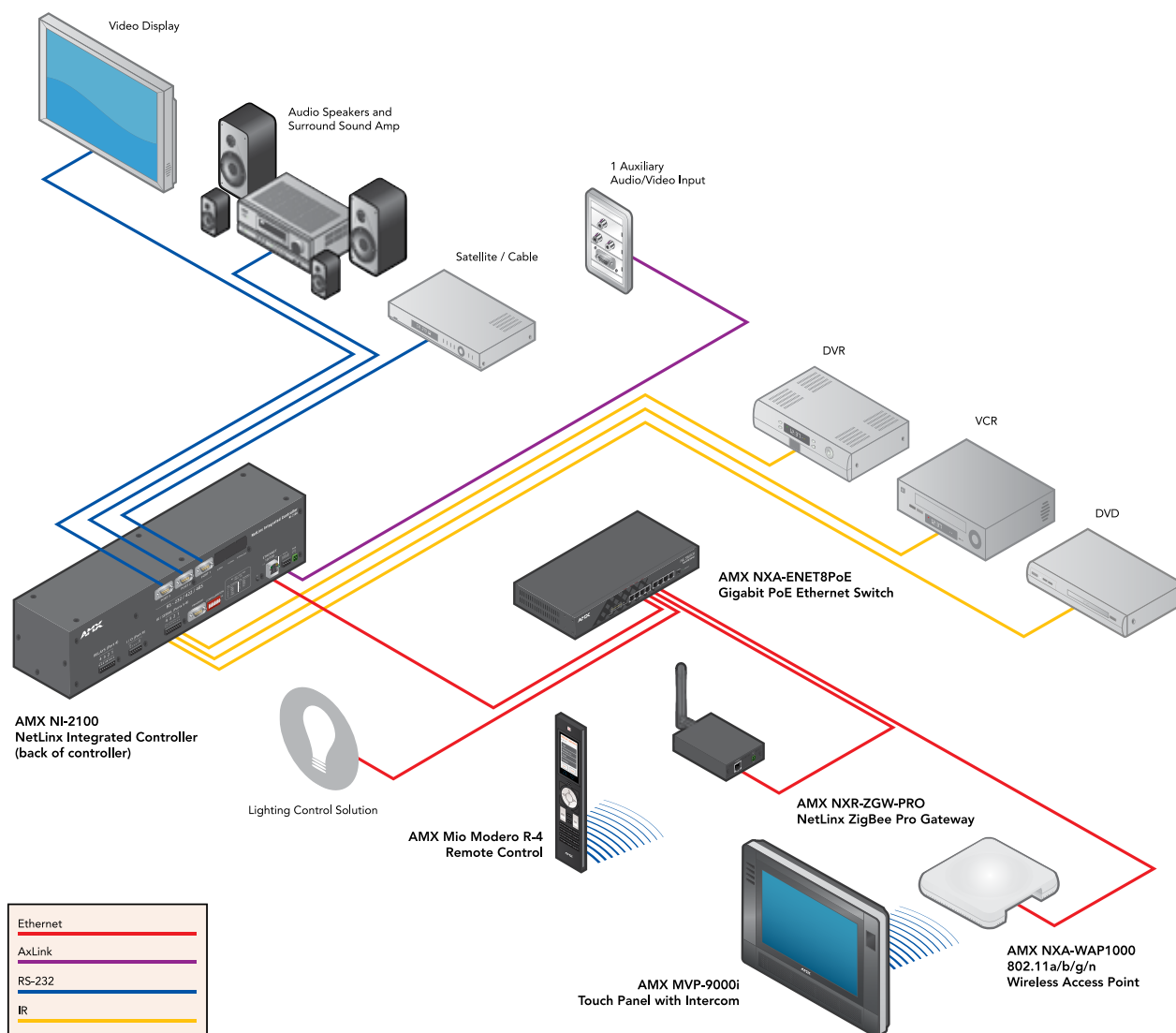# REMOTES

CONTROL IN THE PALM OF YOUR HAND
Handheld Control of Devices and Systems in a Room or Across a Campus

Mio Modero remotes provide stylish wireless freedom to control systems from anywhere in a home or office. These remote controls include models with touch screens and support either one way (IR) or two way (Zigbee Pro) control. Users can roam throughout a home or office and use multiple remotes at a time – even controlling functions in other rooms. Unleash the user's imagination - let them control lighting, shades, pool/spa and HVAC in addition to standard audio and video functions – with these elegant, flexible, and easy to use remote controls.

SYSTEM DIAGRAM
The R-4 and the Mio Modero Remote Controls give users convenient, handheld control of devices in multiple rooms and the ability to roam from room to room when using a NetLinx ZigBee Pro Gateway.

Video Display

Audio Speakers and Surround Sound Amp

1 Auxiliary Audio/Video Input

Satellite / Cable

DVR

VCR

DVD

AMX NXA-ENET8PoE Gigabit PoE Ethernet Switch

AMX NI-2100 NetLinx Integrated Controller (back of controller)

Lighting Control Solution

AMX Mio Modero R-4 Remote Control

AMX NXR-ZGW-PRO NetLinx ZigBee Pro Gateway

AMX NXA-WAP1000 802.11a/b/g/n Wireless Access Point

AMX MVP-9000i Touch Panel with Intercom

Ethernet	
AxLink	
RS-232	
IR	

Get to Know the R-Series
The One + One R-4 R-Series Remotes Brochure gives an in-depth overview of the capabilities and applications of the Mio Modero R-Series Remote Controls. Also included are several product photos and a Remote Controls Comparison Chart. Just visit www.amx.com/newsroom/literature.asp to download the latest literature.

R-4 Actual Size Product Card
Actual sized product cards of the Mio Modero R-4 and other AMX products are available for download in the AMX.com literature section located at: www.amx.com/newsroom/literature.asp. In addition, a list of product features is included.

Mio Modero® R-Series Remote Controls

REMOTE CONTROL COMPARISON CHART

	R-1	R-2	R-4
SIGNAL TRANSMISSION TYPE	IR	IR/418 MHz & 433 MHz RF	2.4 GHz ZigBee Pro
NUMBER OF REMOTES ALLOWED WITHIN SAME AREA	Multiple[1]	2 per area (radius of 100 ft)	8
SIGNAL TRANSMISSION CAPABILITY	One-Way	One-Way	Two-Way
INDOOR SIGNAL TRANSMISSION RANGE[3]	Line of Sight	100 feet	100 feet (extendable with Repeaters)
LCD DISPLAY	One Blue text line	One Blue text line	2.4"/16-bit color Active Touch Scrolling text Dynamic lists
NUMBER OF CONTROLLABLE DEVICES	6	6	Unlimited
RECHARGABLE LITHIUM-ION BATTERIES	Optional	Optional	Standard
EUROPEAN OVERLAY W/ SKY TV CAPABILITY	Teletext w/ Numeric	Teletext w/ Numeric	Teletext w/ Transports
AVERAGE USE TIME BETWEEN CHARGES	4 weeks	4 weeks	1 week
CHARGING CRADLE COMPATIBLE	Optional[2]	Optional[2]	Standard

1 - All use the same IR codes
2 - Requires optional rechargeable battery pack
3 - Varies depending on environmental conditions

MIO-R4

Mio Modero® R-4 Remote

MIO-R4	Remote Only	(FG148-04)
MIO-R4-CC	Remote with Charging Cradle	(FG148-14K)
MIO-R4-ZGW	Remote with Charging Cradle and ZigBee Pro Gateway	(FG148-25K)

OVERVIEW

The Mio Modero® R-4 remote provides custom control features and includes a 2.4-inch full-color, active-matrix TFT LCD Touch Panel, ZigBee Pro wireless technology, two-way communication and unlimited control of devices - all in an elegant handheld rechargeable device. It has a wide coverage area and signals can be transmitted through walls, ceilings, etc. with a range of up to 100 feet indoors (dependent upon conditions and construction materials). The coverage area can be extended by using NetLinx ZigBee Pro Repeaters. And with ZigBee Pro, any number of R-4s can be used within the same property without interfering with each other.

COMMON APPLICATION

The Mio Modero R-4 is an excellent choice for two-way LCD touch control of a wide variety of devices throughout residences, hotels or facilities of almost any size.

FEATURES

- 2.4-inch color active-matrix TFT LCD Touch Panel
- 240 x 320 pixel resolution
- Transmits/Receives two-way signals using ZigBee Pro Wireless technology
- Near unlimited coverage when using NetLinx ZigBee Pro Repeaters
- 29 hard buttons and two LCD buttons
- Supports any connected system device
- Wakes upon touching side rails, moving it, or button presses

SPECIFICATIONS

DIMENSIONS (HWD)
9 1/2" x 2" x 3/4" (24.1 cm x 5.1 cm x 1.9 cm)

WEIGHT
- 7.2 oz (20g) without batteries
- 8.8 oz (25 g) with batteries

POWER
- Mio Modero Lithium-Ion Rechargeable Battery
- 12-18 VDC Power Supply for recharging battery

LCD TOUCH PANEL DISPLAY
- 2.4" color active-matrix TFT (240 x 320 pixel resolution)
- Viewing Angle: ± 60º horizontal, ± 60º vertical
- Display colors: 64K (16-bit color depth)
- Brightness: 100 cd/m2
- Contrast: 350:1

PUSHBUTTONS
29 hard buttons, 2 LCD buttons

MEMORY
- 32 MB of FLASH
- 64 MB of SDRAM

RF TRANSMISSION
- ZigBee Pro 2.4 GHz, 2-way network communications
- 100 feet indoors (extendable using NetLinx ZigBee Pro Repeaters)

BACKLIGHTING SYSTEM ACTIVATION
- Touch   • Tilt Switch   • Push Button   • Touch Screen

ENCLOSURE MATERIALS
- Molded RF Transmissive Material
- Black brushed metal top and bottom cover plates
- Chrome Side Rails, Volume, Channel, Navigation, Select, Play and Power Buttons

REAR COMPONENTS
- Programming Port   • Battery Door   • Rechargeable Battery Connection

CUSTOMIZATION
Multiple languages supported for Touch Panel and Engraved Buttons

SUPPORTED LANGUAGES
Arabic, English, French, German, Hindi, Italian, Simple Chinese, Portuguese, Russian, Spanish, Thai

ENVIRONMENTAL
- Operating Temperature: 0º to 40º C (32º to 104º F)
- Storage Temperature: -20º to 70º C (-4º to 158º F)

CERTIFICATIONS
FCC, IC, CE, IEC 60950, Japan Approval

OPTIONAL KEYPADS
- MIO-R4-KP-ITALIAN (FG148-141)
- MIO-R4-KP-FRENCH (FG148-142)
- MIO-R4-KP-ARABIC (FG148-143)
- MIO-R4-KP-MANDARIN (FG148-144)

RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
NXR-ZGW-PRO	NetLinx ZigBee Pro Gateway	(FG5791-11)	262
NXR-ZRP-PRO	NetLinx ZigBee Pro Repeater	(FG6791-03)	263
MIO-RCC-KIT	Mio Remote Charging Cradle Kit	(FG147-03K)	264
MIO-RBP	Rechargeable Lithium Ion Battery	(FG147-10)	265
CC-USB	USB Programing Cable	(FG10-5965)	258
MIO-R4-KP-TRANSPORT	Mio R-4 Device Transport Keypad	(FG148-145)	264
MIO-R4-KP-EURO	Mio R-4 European Keypad	(FG148-146)	265

A CLOSER LOOK

MIO-R4

Power

Touch Screen

MEDIA LIBRARY
4 - 8 of 33

Cars

Monsters Inc.

Shrek

Toy Story

Discs   Tracks

HOME

MENU   INFO

GUIDE   EXIT

LAST

VOL   MUTE   CH

Numeric
Keypad

1	2	3
4	5	6
7	8	9
INPUT	0	ENTER

AMX

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

AWARD WINNER
The Mio Modero R-4 was awarded the **"2007 EXC!TE Award"** from *CustomRetailer* ,**"Product of the Year"** from *EH Publishing* and the **"Technology InAVation Award, Most InAVative Control Product for Residential Use"** from *InAVate*.

D-TOOLS CERTIFIED PRODUCT
This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

COUNTRY OF ORIGIN: MEXICO
To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

MX

MIO-R2

Mio Modero R-2 Remote

MIO-R2-418	418 MHz	(FG147-418)
MIO-R2-433	433 MHz	(FG147-433K)

OVERVIEW

The Mio Modero R-2 is an elegant handheld remote providing RF or IR control. Features a range of up to 100 feet indoors (dependent upon conditions and construction materials) using either 418 MHz (MIO-R2-418) or 433 MHz (MIO-R2-433) one-way RF for greater coverage and flexible control. Provides custom control features, contained in an elegant handheld device including 45 backlit laser-engraved buttons: 3 are designated to activate macros, 6 are slated for accessing devices and the remaining 36 represent specific operating functions for each device.

COMMON APPLICATION

Perfect for residential or commercial applications requiring one-way RF control or direct line-of-sight IR control of a specific number of integrated devices.

FEATURES

- Transmits one-way signals using 418 MHz or 433 MHz RF signal transmission
- 45 push buttons
- Also operates at 38 kHz/455 kHz IR Frequencies
- Supports 6 Devices and 3 Macros
- Wakes upon touching side rails, moving it, or button presses

SPECIFICATIONS

DIMENSIONS (HWD)
9 1/2" x 2" x 3/4" (24.1 cm x 5.1 cm x 1.9 cm)

WEIGHT
- 7.2 oz (20 g) without batteries   • 8.8 oz (25 g) with batteries

LCD DISPLAY
- Animated IR/RF Transmission Icon   • Battery Indicator Icon

POWER
4 AAA Alkaline Batteries (5 hours battery life)

TRANSMISSION FREQUENCIES
- IR 38 KHz   • IR 455 KHz
- 418 MHz RF (1-way) (FG147-418)   • 433 MHz RF (1-way) (FG147-433)
- Capable of simultaneous IR and RF transmissions

TRANSMISSION RANGE (DISTANCE) WITH MIO IR RECEIVER
- 100 feet at 38 KHz   • 50 feet at 455 KHz
- 300 feet at 418 MHz (RF)   • 200 feet at 433 MHz (RF)

TRANSMISSION RANGE (ANGLE)
- 140 degrees (±70º from perpendicular) horizontally from an axis extending from the end of the remote.
- 40 degrees (±20º from perpendicular) vertically from an axis extending from the end of the remote.

TOP COMPONENTS
- LED - blue backlit buttons indicate device is awake
- Display (OLED) - 128 x 32 pixels, active area is 29.42 mm x 7.98 mm
- Pushbuttons - the power button is red backlit; the rest are blue backlit buttons. 45 buttons; 9 custom buttons (3 macro and 6 device).

REAR COMPONENTS
- Programming Port - 2.5 mm stereo female conductor jack
- Battery Door
- Rechargeable Battery Connection

BACKLIGHTING SYSTEM ACTIVATION
- Touch   • Tilt Switch   • Push Button

ENCLOSURE MATERIALS
- Molded IR Transmissive Material
- Black Brushed Metal top and bottom cover plates
- Chrome Side Rails, Volume, Channel, Navigation, Select, Play and Power Buttons

CUSTOMIZATION
Multiple Languages for LCD Display and Engraved Buttons
(Top 9 Buttons, 3 Macro/6 Device)

SUPPORTED LANGUAGES
Arabic, English, French, German, Hindi, Italian, Simple Chinese, Portuguese, Russian, Spanish, Thai

ENVIRONMENTAL
- Operating Temperature: 0º to 50º C (32º to 122º F)
- Storage Temperature: -10º to 70º C (14º to 158º F)

OPTIONAL KEYPADS
MIO-RX-KP-EURO (FG148-147)

RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
MIO-RCC-KIT	Mio Remote Charging Cradle Kit	(FG147-03K)	264
MIO-RBP	Rechargeable Lithium-Ion Battery	(FG147-10)	265
MIO-IRRX	Mio Modero IR Receiver	(FG5797-01xx)	267
IRX-PP38	Plasma Proof IR Sensor	(FG460)	266
AXR-RF	418 MHZ RF Receiver	(FG782-418)	268
AXR-RF	433 MHZ RF Receiver	(FG782-433)	268
MIO-R1-EN	Custom engraving	(FG147-01)	
MIO-RX-KP-EURO	Mio R1/2/3 European Keypad	(FG148-147)	265

A CLOSER LOOK

MIO-R2

Power

Current Menu

Transmission Mode

Battery Meter

Custom Macro Buttons

Custom Mode Options

Numeric Keypad

MIO-R2

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit **www.amx.com/training**

AWARD WINNER
The Mio Modero R-2 was awarded the **"High Impact Product of the Year"** from *CE Pro*.

D-TOOLS CERTIFIED PRODUCT
This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

COUNTRY OF ORIGIN: MEXICO
To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

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MIO-R1
Mio Modero R-1 Remote

(FG147)

OVERVIEW

The Mio Modero R-1 provides custom control features, contained in an elegant handheld device. Includes 45 backlit laser-engraved buttons: 3 are designated to activate macros, 6 are slated for accessing devices and the remaining 36 represent specific operating functions for each device. Also includes circular chrome navigation button for up, down, left, right and select as well as two square chrome buttons for changing channels and adjusting volume.

COMMON APPLICATION

Smaller rooms where IR control of a specific number of integrated devices is required.

FEATURES

- 45 push buttons
- Operates at 38 kHz/455 kHz IR Frequencies
- Supports 6 Devices and 3 Macros
- Wakes upon touching side rails, moving it, or button presses

SPECIFICATIONS

DIMENSIONS (HWD)
9 1/2" x 2" x 3/4" (24.1 cm x 5.1 cm x 1.9 cm)

WEIGHT
- 7.2 oz (20 g) without batteries
- 8.8 oz (25 g) with batteries

POWER
4 AAA Alkaline Batteries (5 hours battery life)

LCD DISPLAY
- Animated IR Transmission Icon
- Battery Indicator Icon

TRANSMISSION FREQUENCIES
- IR 38 kHz
- IR 455 kHz

TRANSMISSION RANGE (DISTANCE) WITH MIO IR RECEIVER
- 100 feet at 38 kHz
- 50 feet at 455 kHz

TRANSMISSION RANGE (ANGLE)
- 140 degrees (±70º from perpendicular) horizontally from an axis extending from the end of the remote.
- 40 degrees (±20º from perpendicular) vertically from an axis extending from the end of the remote.

TOP COMPONENTS
- LED - blue backlit buttons indicate device is awake
- Display (OLED) - 128 x 32 pixels, active area is 29.42 mm x 7.98 mm
- Pushbuttons - the power button is red backlit; the rest are blue backlit buttons. 45 buttons; 9 custom buttons (3 macro and 6 device).

BACKLIGHTING SYSTEM ACTIVATION
- Touch   • Tilt Switch   • Push Button

ENCLOSURE MATERIALS
- Molded IR Transmissive Material
- Black Brushed Metal top and bottom cover plates
- Chrome Side Rails, Volume, Channel, Navigation, Select, Play and Power Buttons

REAR
- Programming Port - 2.5 mm stereo female conductor jack
- Battery Door

CUSTOMIZATION
Multiple Languages for LCD Display and Engraved Buttons (Top 9 Buttons, 3 Macro/6 Device)

SUPPORTED LANGUAGES
Arabic, English, French, German, Hindi, Italian, Simple Chinese, Portuguese, Russian, Spanish, Thai

ENVIRONMENTAL
- Operating Temperature: 0º to 50º C (32º to 122º F)
- Storage Temperature: -10º to 70º C (14º to 158º F)

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	ONLINE	PAGE #
MIO-RCC-KIT	Mio Remote Charging Cradle Kit		(FG147-03K)	264
MIO-RBP	Rechargeable Lithium Ion Battery		(FG147-10)	265
MIO-IRRX	Mio Modero IR Receiver		(FG5797-01xx)	267
IRX-PP38	Plasma Proof IR Sensor		(FG460)	266
MIO-R1-EN	Custom engraving		(FG147-01)	
MIO-RX-KP-EURO	Mio R1/2/3 European Keypad		(FG148-147)	265

A CLOSER LOOK

MIO-R1

Power

Current
Menu

Transmission
Mode

Battery
Meter

Custom Macro
Buttons

Custom Mode
Options

Numeric
Keypad

MIO-R1

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit **www.amx.com/training**

AWARD WINNER
The Mio Modero R-1 was awarded the **"High Impact Product of the Year"** from *CE Pro*.

D-TOOLS CERTIFIED PRODUCT
This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

COUNTRY OF ORIGIN: MEXICO
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