

# LAN Products

***HanRun***  
Electronics Company Limited

## Product Selection Guide

# LAN Products

## Products by Applications

### Power

- Transformer and inductor for DC/DC applications
- Transformer and inductor for AC/DC applications
- Transformer for PoE applications
- Common mode choke for SMPS applications
- Transformer for Current sense applications
- Transformer for SMPS applications

### Telecom

- Transformers for T3/DS3/E3/STS-1 applications
- Transformers for T1/E1/CEPT/ISDN-Pri applications
- Transformer for ISDN U-Interface or S-Interface application
- Filter, Splitter, Transformer, or Common Mode Choke for xDSL applications

### LAN

- Magnetics or Filters or Magnetics integrated RJ45 connectors for 10/100/1000, 10GBase-T application
- Magnetics or Magnetics integrated RJ45 connectors for PoE/ PoE+ application
- Magnetics integrated combo connectors for LAN application
- Magnetics integrated RJ-45 connectors for Surge Protection application

### xDSL Splitter

- Filter and Splitter for xDSL Central Office applications
- Filter and Splitter for xDSL Customer Premises applications
- Filter and Splitter for ADSL/ADSL2/ADSL2+ VDSL/VDSL2 applications
- Protector Unit for xDSL Central Office applications

# LAN Products

|                        | Magnetics Modules      |                        |                |            | RJ45 Connector with Integrated Magnetics |                                     |                                     |            |
|------------------------|------------------------|------------------------|----------------|------------|------------------------------------------|-------------------------------------|-------------------------------------|------------|
|                        | 10 Base-T              | 100 Base-T             | 1000 Base-T    | 10G Base-T | 10 Base-T                                | 100 Base-T                          | 1000 Base-T                         | 10G Base-T |
| Ethernet<br>Non<br>PoE | Single<br>Dual<br>Quad | Single<br>Dual<br>Quad | Single<br>Dual | Single     | 1 x 1<br>1 x N                           | 1 x 1<br>1 x N<br>2 x N<br>with USB | 1 x 1<br>1 x N<br>2 x N<br>with USB | 1 x 1      |
| with<br>PoE            |                        | Single<br>Dual<br>Quad | Single<br>Dual | Single     |                                          | 1 x 1<br>1 x N<br>2 x N<br>with USB | 1 x 1                               | 1 x 1      |
| with<br>PoE+           |                        | Single<br>Dual<br>Quad | Single<br>Dual |            |                                          | 1 x 1<br>1 x N<br>2 x N             | 1 x 1                               |            |
| with<br>Surge          |                        |                        |                |            |                                          | 1 x 1<br>1 x N<br>2 x N             | 1 x 1<br>1 x N<br>2 x N             |            |

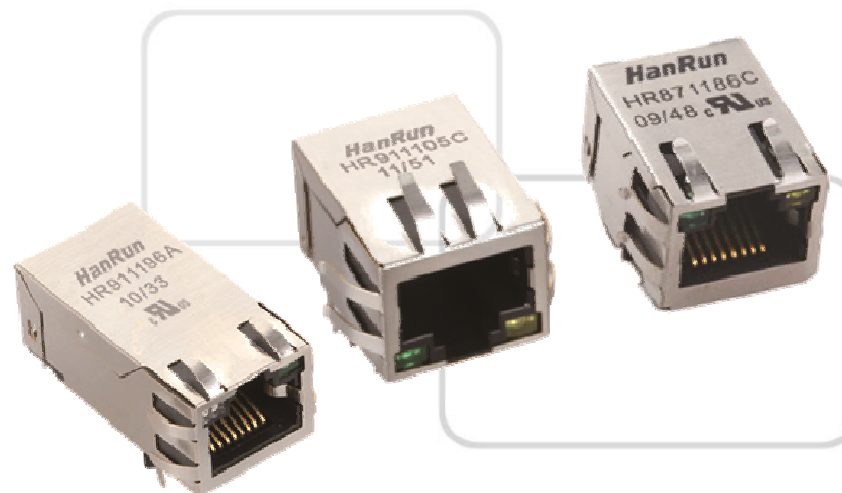
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- Single Port RJ45
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- Low Profile Type RJ45
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- 1\*N RJ45
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- Surge Protection
- PoE+(IEEE802.3at)
- PoE (IEEE802.3af)
- 10 G Base-T
- 1000 Base-T
- 10/100 Base-T
- 10 Base-T

# Single Port RJ45

- Single Port
  - Gigabi
  - 10/100Base-T
  - 10 Base-T
  - Tab Up / Down



| Port     | 1000Base-T | 100Base-T | 10Base-T  | PoE       | Surge Protection |
|----------|------------|-----------|-----------|-----------|------------------|
| Tab-Down | HR911130A  | HR911105A | HR911170A | HR931147C | HR961142A        |
| Tab-UP   | HR851178C  | HR871186C | HR871120A | HR871161C | HR871165C        |
| Tab-UP   | HR971161A  | HR911168C | HR961150A | HR971169C | HR851110C        |
| Tab-UP   | HY911180A  | HR971184A |           | HR901189A | HR913390A        |

# SMD Type RJ45

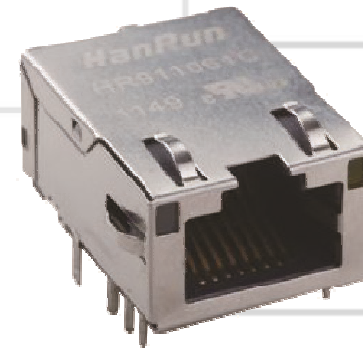
- SMD Type
  - 10/100Base-T Tab-up
  - 10/100Base-T Tab-down



|                       |            |            |
|-----------------------|------------|------------|
| 10/100Base-T Tab-UP   | HR961160C  | HR961163CE |
| 10/100Base-T Tab-Down | HR993300CE | HY991101C  |

# Low Profile Type RJ45

- Gigabit Tab-up
- 10/100Base-T Tab-up



| Port   | 100Base-T | 1000Base-T |
|--------|-----------|------------|
| Tab-UP | HR911001C | HR911060C  |

# Vertical Type RJ45

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- Gigabit
- 10/100Base-T
- 10Base-T



| Mechanical Dimensions | 100Base-T | 1000Base-T | PoE        |
|-----------------------|-----------|------------|------------|
| 0.85 inch             | HR851190A | HR871190AE | HR871197AE |
| 0.65 inch             | HR951181A |            | HR875590A  |

# RJ45+USB Type

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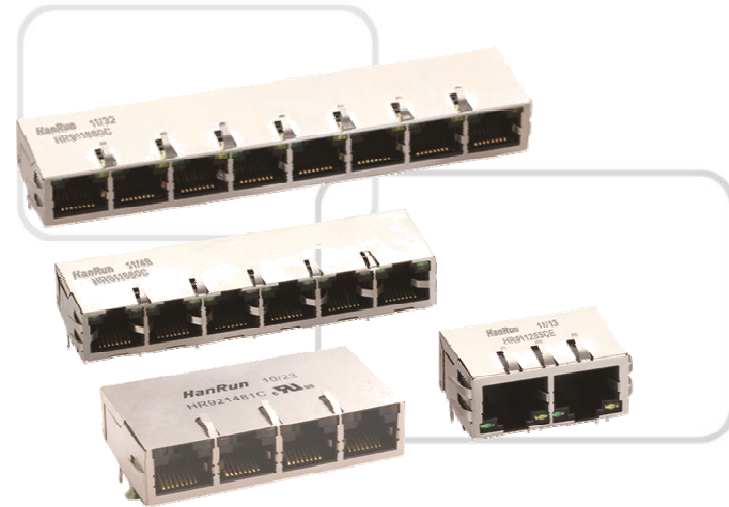
- Gigabit
- 10/100Base-T
- USB2.0/USB3.0
- Single/Dual USB



| USB 2.0    | 1000Base-T | 100base-T | 1000Base-T+USB3.0 |
|------------|------------|-----------|-------------------|
| Single USB |            | HR981190A |                   |
| Dual USB   | HR981142A  | HR981117A | HR851120A         |

# 1\*N RJ45

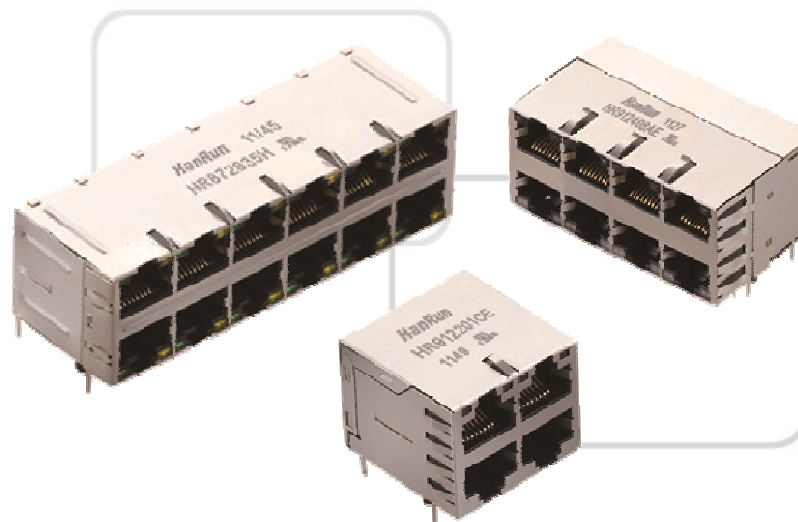
- Gigabit
- 10/100Base-T
- 1\*2, 1\*4, 1\*6, 1\*8
- Tab Up / Down



| Port | 1000Base-T | 100Base-T  | PoE        | Surge Protection |
|------|------------|------------|------------|------------------|
| 1*2  | HR911265CE | HR911205CE | HR901247A  | HR971210CE       |
| 1*4  | HR901435BE | HR911409B  | HR911442BE | HR911492C        |
| 1*6  | HR911660C  | HR911601C  |            |                  |
| 1*8  | HY911880C  | HR911860C  | HR911862CE |                  |

## 2\*N RJ45

- Gigabit
- 10/100Base-T
- 2\*1, 2\*2, 2\*4, 2\*6, 2\*8



| Port | 1000Base-T | 100Base-T | PoE       | Surge Protection |
|------|------------|-----------|-----------|------------------|
| 2*1  | HR872132H  | HR872105H | HR872150H | HR872155H        |
| 2*2  | HR862235HE | HR902201C | HR902242C |                  |
| 2*4  | HR872435H  | HR872403H | HR902442A |                  |
| 2*6  | HR862635H  | HR872601H |           |                  |
| 2*8  | HR902801B  | HR902802B |           |                  |

# 10 G Base-T RJ45

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- 1x1
- Low Profile



| Port | PIN   | P/N       |
|------|-------|-----------|
| 1*1  | 12PIN | HR911080A |
| 1*1  | 16PIN | HR911090A |

# PoE+ RJ45(IEEE802.3at)

- 1x1
- 1xN
- RJ45+USB



| Port  | Description | Part NO.   |
|-------|-------------|------------|
| 1 x 1 | 100Base     | HR851145A  |
| 1 x 1 | 100Base     | HR851152AE |
| 1 x 1 | 1000Base    | HR911196AE |
| 1 x 4 | 100Base     | HR911442BE |

# PoE RJ45(IEEE802.3af)

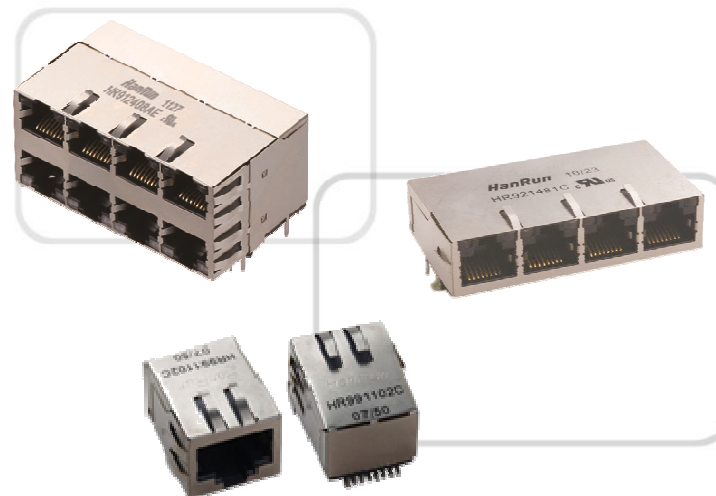
- 1x1
- 1xN
- RJ45+USB



| Port  | Description | Part NO.  |
|-------|-------------|-----------|
| 1 x 1 | 100Base     | HR851143A |
| 1 x 2 | 100Base     | HR901247A |
| 2 x 4 | 100Base     | HR902442A |
| 1 x 1 | 1000Base    | HR911195A |

# Surge Protection RJ45

- 1x1
- 1xN
- 2xN
- RJ45+USB



| Port  | Description | 防护类型         | Part NO.  |
|-------|-------------|--------------|-----------|
| 1 x 1 | 100Base     | GR1089       | HR871159C |
| 1 x 1 | 1000Base    | ESD          | HR851190A |
| 1 x 4 | 100Base     | IEC61000-4-5 | HR911445A |
| 2 x 1 | 1000Base    | IEC61000-4-5 | HR872120H |

# 1000 Base-T RJ45

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- 1x1
- 1xN
- 2xN
- RJ45+USB



| Port | P/N        | Port | P/N        |
|------|------------|------|------------|
| 1*1  | HR911130A  | 2*1  | HR872132H  |
| 1*2  | HR911265CE | 2*2  | HR862235HE |
| 1*4  | HR901435BE | 2*4  | HR872435H  |
| 1*6  | HR911660C  | 2*6  | HR862635H  |
| 1*8  | HY911880C  | 2*8  | HR902801B  |

# 10/100 Base-T RJ45

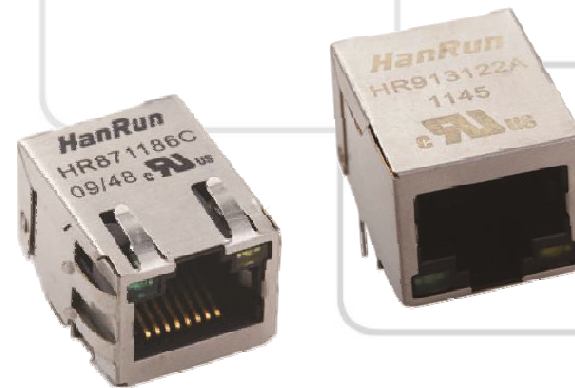
- 1x1
- 1xN
- 2xN
- RJ45+USB



| Port  | Mechanical Dimensions | Part NO.  |
|-------|-----------------------|-----------|
| 1 x 1 | SMD 0.85inch          | HY991101C |
| 1 x 1 | Low Profile           | HR911001C |
| 2 x 4 | Pins Vertical         | HR862435H |
| 1 x 1 | with USB              | HR981118A |

# 10 Base-T RJ45

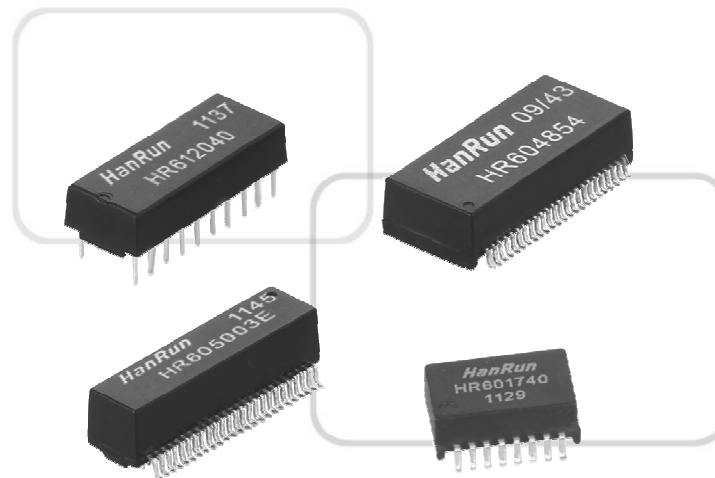
- 1x1
- Tab Up / Down



| Port        | EMI | Part NO.  |
|-------------|-----|-----------|
| Tab down    | YES | HR911170C |
| Tab up      | NO  | HR961150A |
| Tab upright | NO  | HR951175A |

# 10/100 Base-T Modules

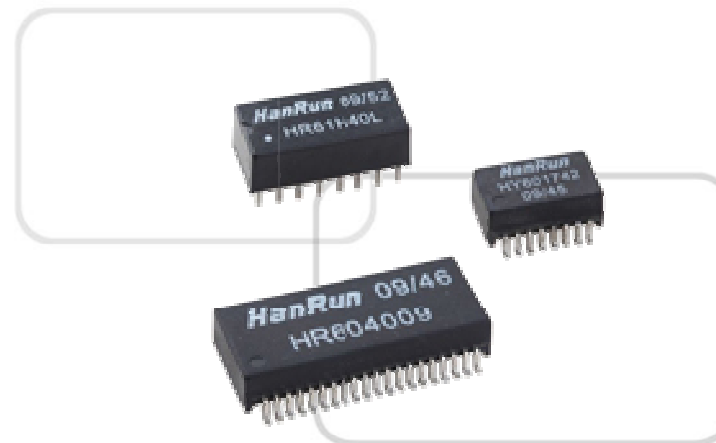
- Single Port
- Dual Port
- Quad Port



| Mechanical Dimensions | TX T/R  | RX T/R  | Port   | PIN | Part NO.  |
|-----------------------|---------|---------|--------|-----|-----------|
| SMD                   | 1CT:1CT | 1CT:1CT | Single | 16  | HY601680  |
| SMD                   | 1CT:1CT | 1CT:1CT | Quad   | 40  | HY604009E |
| SMD                   | 1CT:1CT | 1CT:1CT | Single | 16  | HR661510  |
| SMD                   | 1CT:1CT | 1CT:1CT | Dual   | 24  | HR662460  |
| THT                   | 1CT:1CT | 1CT:1CT | Single | 16  | HR61H40L  |

## 10 Base-T Modules

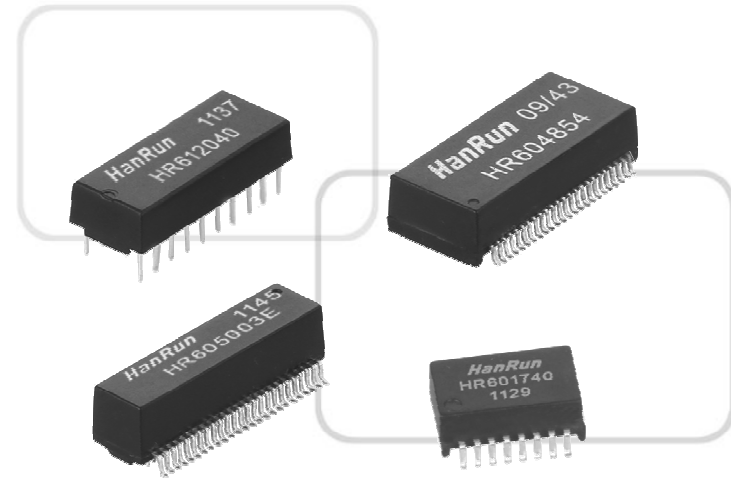
- Single Port
- Dual Port
- Quad Port



| Mechanical Dimensions | TX T/R  | RX T/R    | Port   | PIN | Part NO.  |
|-----------------------|---------|-----------|--------|-----|-----------|
| SMD                   | 1CT:1CT | 1CT:2.5CT | Single | 16  | HY601627E |
| SMD                   | 1CT:1CT | 1CT:1CT   | Dual   | 24  | HR602450  |
| SMD                   | 1CT:1CT | 1:1       | Quad   | 40  | HY604039  |
| THT                   | 1CT:1CT | 1CT:2.5CT | Single | 12  | HR611209  |
| THT                   | 1CT:1   | 1CT:1     | Dual   | 20  | HY612040  |

# 1000 Base-T Modules

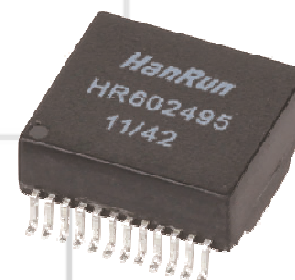
- Single Port
- Dual Port
- Quad Port



| Mechanical Dimensions | TX T/R  | RX T/R  | Port   | PIN | Part NO.  |
|-----------------------|---------|---------|--------|-----|-----------|
| SMD                   | 1CT:1   | 1CT:1   | Single | 24  | HY602401E |
| SMD                   | 1CT:1CT | 1CT:1CT | Dual   | 48  | HY604814  |
| SMD                   | 1CT:1CT | 1CT:1CT | Single | 24  | HR662421  |

# 10G Base-T Modules

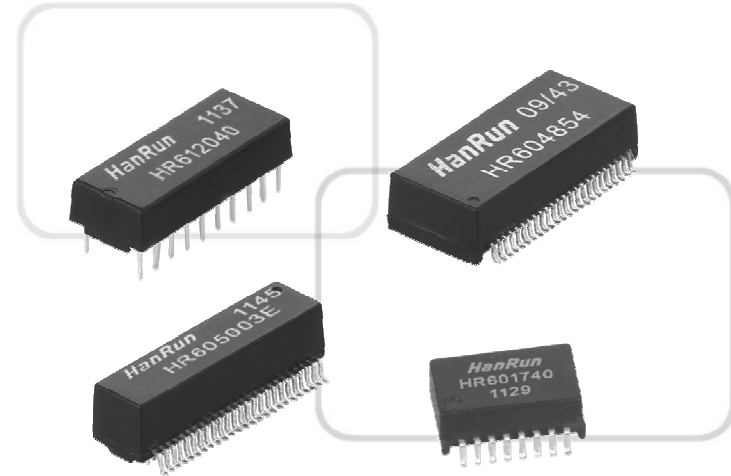
- Single Port



| Mechanical Dimensions | TX T/R  | RX T/R  | Port   | PIN | Part NO. |
|-----------------------|---------|---------|--------|-----|----------|
| SMD                   | 1CT:1CT | 1CT:1CT | Single | 24  | HR662495 |
| SMD                   | 1CT:1CT | 1CT:1CT | Single | 24  | HR602495 |

# PoE Modules(IEEE802.3af)

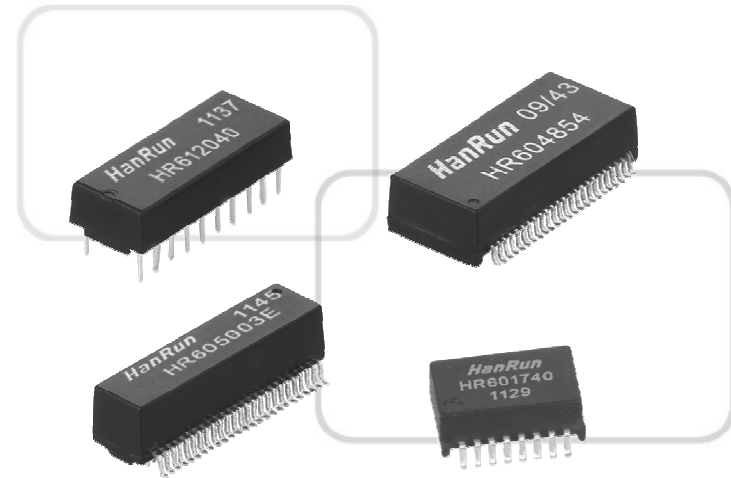
- Gigabit
- 10/100Base-T



| Description | Mechanical Dimensions | TX T/R  | RX T/R  | Port   | PIN | Part NO.  |
|-------------|-----------------------|---------|---------|--------|-----|-----------|
| 100Base-T   | SMD                   | 1CT:1CT | 1CT:1CT | Single | 16  | HY601742  |
| 1000Base-T  | SMD                   | 1CT:1CT | 1CT:1CT | Single | 24  | HY602413E |

# PoE+ Modules(IEEE802.3at)

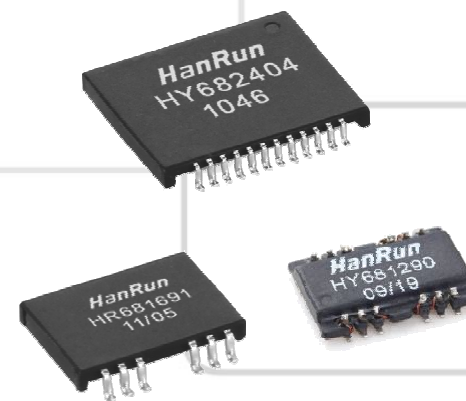
- Gigabit
- 10/100Base-T



| Description | Mechanical Dimensions | TX T/R  | RX T/R  | Port   | PIN | Part NO.  |
|-------------|-----------------------|---------|---------|--------|-----|-----------|
| 100Base-T   | SMD                   | 1CT:1CT | 1CT:1CT | Single | 16  | HR60H63S  |
| 1000Base-T  | SMD                   | 1CT:1CT | 1CT:1CT | Dual   | 50  | HR605004E |
| 100Base-T   | THT                   | 1CT:1CT | 1CT:1CT | Single | 12  | HR611741B |

## Low Profile Modules

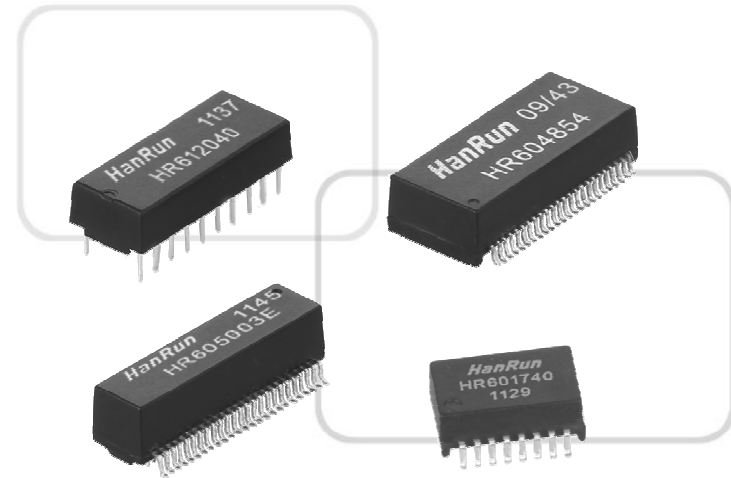
- Gigabit
- 10/100Base-T



| Description | Mechanical Dimensions | TX<br>T/R | RX<br>T/R | Port   | PIN | Part NO.  |
|-------------|-----------------------|-----------|-----------|--------|-----|-----------|
| 10Base-T    | SMD                   | 1CT:1CT   | 1CT:1CT   | Single | 16  | HY681629  |
| 100Base-T   | SMD                   | 1CT:1CT   | 1CT:1CT   | Single | 12  | HY681681  |
| 1000Base-T  | SMD                   | 1CT:1CT   | 1CT:1CT   | Single | 24  | HY682405E |

# VoIP Modules

- Gigabit
- 10/100Base-T
- single / Dual Port



| Description | Mechanical Dimensions | TX T/R  | RX T/R  | Port   | PIN | Part NO. |
|-------------|-----------------------|---------|---------|--------|-----|----------|
| 10Base-T    | SMD                   | 1CT:1CT | 1CT:1CT | Single | 16  | HY601655 |
| 100Base-T   | SMD                   | 1CT:1CT | 1CT:1CT | Single | 24  | HY602468 |

# Choke Modules

- Single Port
- Dual Port
- Quad Port



| Mechanical Dimensions | Bandwidth     | PIN | Part NO. |
|-----------------------|---------------|-----|----------|
| THT                   | 1MHz-500MHz   | 8   | HR610803 |
| SMD                   | 0.1MHz-500MHz | 8   | HR600812 |
| SMD                   | 0.1MHz-500MHz | 16  | HR60163C |

Thanks for  
your interest in our products!

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