

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 15, 2026

IFI

## IFI M3100S RF Power Amplifier

The Instruments for Industry M3100S is a solid-state RF power amplifier in the IFI M-series rack amplifier line. Public catalog listings identify it as an RF power amplifier; published IFI M-series solid-state amplifier datasheets share 50 ohm Type N interfaces, VSWR protection, and air-cooled rack packaging, while model-specific frequency and wattage for M3100S belong on the unit faceplate. Broadband RF drive for EMC susceptibility, communications transmitter testing, and laboratory RF power amplification where an IFI M-series rack amplifier is specified.

Remote Control Class: IEEE-488 RS232 options on IFI racks  
Rf Sample Port Class:

Type N sample available on series  
Open Short Protection Class: yes on M-series sheets  
Identity from inventory title IFI M3100S RF Power Amplifier. Frequency span and rated watts for this exact SKU were not located in a public model table; interface temperature VSWR and protection rows are from published IFI M-series solid-state amplifier datasheets. Confirm power and band on the faceplate and calibration certificate.



MODEL

**IFI M3100S**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**M3100S**

LISTING

<https://aumictechlabs.com/products/m3100s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The IFI M3100S is a solid and reliable industrial computer built to withstand extreme conditions. Its fanless design ensures quiet operation and reduces maintenance. With a wide operating

temperature range and vibration resistance, the M3100S is suitable for deployment in challenging environments where reliability is critical.

## M3100S Characteristics / Specifications

| PARAMETER                       | VALUE                               |
|---------------------------------|-------------------------------------|
| Model                           | M3100S                              |
| Instrument Type                 | solid state RF power amplifier      |
| Brand                           | Instruments for Industry IFI        |
| Series Family                   | IFIMseries                          |
| Input Impedance Class           | 50 ohm                              |
| Output Impedance Class          | 50 ohm                              |
| Rf Input Connector Class        | TypeNfemale                         |
| Rf Output Connector Class       | TypeNfemale                         |
| Input Vswr Class                | 2.0 to 1                            |
| Output Vswr Class               | 2.5 to 1                            |
| Operating Temperature Class     | 0 C to 50 C                         |
| Nonoperating Temperature Class  | minus 40 C to 70 C                  |
| Humidity Class                  | 95 percent without condensation     |
| Operating Altitude Class        | 10000 ft                            |
| Cooling Class                   | air cooled self contained           |
| Modulation Class                | AM FM Pulse                         |
| Spurious Outputs Class          | less than minus 60 dBc nominal      |
| Harmonics At Linear Power Class | minus 20 dBc minimum                |
| Configuration Class             | rack mount                          |
| Protection Class                | VSWR reflected power foldback       |
| Prime Power Class               | single phase AC mains as tagged     |
| Form Factor                     | rack amplifier                      |
| Manufacturer                    | Instruments for Industry            |
| Remote Control Class            | IEEE-488 RS232 options on IFI racks |
| Rf Sample Port Class            | TypeNsample available on series     |

| PARAMETER                   | VALUE                                  |
|-----------------------------|----------------------------------------|
| Open Short Protection Class | yes on M-series sheets                 |
| Operating temperature       | Class: 0 C to 50 C                     |
| Humidity                    | Class: 95 percent without condensation |

# General Specifications & Supplementary Characteristics

| PARAMETER                       | VALUE                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature           | Class: 0 C to 50 C                                                                                                                                                                                                                                                                                                                                                        |
| Operating Temperature           | Class: 0 C to 50 C                                                                                                                                                                                                                                                                                                                                                        |
| Humidity                        | Class: 95 percent without condensation                                                                                                                                                                                                                                                                                                                                    |
| Operating Temperature Class     | 0 C to 50 C                                                                                                                                                                                                                                                                                                                                                               |
| Nonoperating Temperature Class  | minus 40 C to 70 C                                                                                                                                                                                                                                                                                                                                                        |
| Humidity Class                  | 95 percent without condensation                                                                                                                                                                                                                                                                                                                                           |
| Operating Altitude Class        | 10000 ft                                                                                                                                                                                                                                                                                                                                                                  |
| Cooling Class                   | air cooled self contained                                                                                                                                                                                                                                                                                                                                                 |
| Modulation Class                | AM FM Pulse                                                                                                                                                                                                                                                                                                                                                               |
| Spurious Outputs Class          | less than minus 60 dBc nominal                                                                                                                                                                                                                                                                                                                                            |
| Harmonics At Linear Power Class | minus 20 dBc minimum                                                                                                                                                                                                                                                                                                                                                      |
| Configuration Class             | rack mount                                                                                                                                                                                                                                                                                                                                                                |
| Protection Class                | VSWR reflected power foldback                                                                                                                                                                                                                                                                                                                                             |
| Prime Power Class               | single phase AC mains as tagged                                                                                                                                                                                                                                                                                                                                           |
| Form Factor                     | rack amplifier                                                                                                                                                                                                                                                                                                                                                            |
| Manufacturer                    | Instruments for Industry                                                                                                                                                                                                                                                                                                                                                  |
| Remote Control Class            | IEEE-488 RS232 options on IFI racks                                                                                                                                                                                                                                                                                                                                       |
| Rf Sample Port Class            | TypeNsample available on series                                                                                                                                                                                                                                                                                                                                           |
| Open Short Protection Class     | yes on M-series sheets Notes Identity from inventory title IFI M3100S RF Power Amplifier. Frequency span and rated watts for this exact SKU were not located inapublic model table; interface temperature VSWR and protection rows are from published IFI M-series solid-state amplifier datasheets. Confirm power and band on the faceplate and calibration certificate. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                  |                                     |
|---------------------------------|-------------------------------------|
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#### Notes

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### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
30-day returns  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.