## Table Of Contents

**Japan Communication Services Sector MSCI**

- Stock Price Index 1
- Earnings 2
- Revenues & Margins 3
- Valuation 4
Figure 1.

JAPAN COMMUNICATION SERVICES SECTOR MSCI STOCK PRICE INDEX
(ratio scale)

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200-day moving average (adjusted using monthly price data through 2005 and weekly thereafter).
Source: Morgan Stanley Capital International & I/B/E/S data by Refinitiv.

Figure 2.

JAPAN COMMUNICATION SERVICES SECTOR MSCI, FORWARD EARNINGS, & VALUATION

- Japan Communication Services Sector MSCI Index
  09/12/19
- Blue Angels Implied Price Index*
  09/12/19

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* Implied price index calculated using forward earnings times forward P/Es. Monthly through December 2005, weekly thereafter.
Source: Standard & Poor’s and I/B/E/S data by Refinitiv.
Figure 3.

JAPAN COMMUNICATION SERVICES SECTOR MSCI EARNINGS PER SHARE
(analysts' average forecasts)

Consensus Forecasts
- Annual estimates
- Forward earnings*

Figure 4.

JAPAN COMMUNICATION SERVICES SECTOR MSCI INDEX NET EARNINGS REVISIONS*

* Time-weighted average of the consensus estimates for current year and next year. Monthly through December 2005, weekly thereafter.
Source: I/B/E/S data by Refinitiv.

* Three-month moving average of the number of forward earnings estimates up less number of estimates down, expressed as a percentage of the total number of forward earnings estimates.
Source: I/B/E/S data by Refinitiv.
Revenues & Margins

Figure 5.
JAPAN COMMUNICATION SERVICES SECTOR MSCI REVENUES PER SHARE
(analysts’ average forecasts, ratio scale)

Consensus Forecasts
- Annual estimates
- Forward revenues*

* Time-weighted average of the consensus estimates for current year and next year. Monthly through December 2005, weekly thereafter.
Source: I/B/E/S data by Refinitiv.

Figure 6.
JAPAN COMMUNICATION SERVICES SECTOR MSCI PROFIT MARGIN
(using analysts’ average earnings and revenues forecasts)

Consensus Forecasts
- Annual estimates
- Forward profit margin* (10.6)

* Time-weighted average of the consensus estimates for current year and next year. Monthly through December 2005, weekly thereafter.
Source: I/B/E/S data by Refinitiv.
**Figure 7.**

**JAPAN COMMUNICATION SERVICES SECTOR MSCI VALUATION MULTIPLE**

- **Forward P/E (13.0)**

P/E capped at 60 due to extreme values.

* Price divided by forward consensus expected earnings per share. Monthly data through December 2005, weekly thereafter.

Source: I/B/E/S data by Refinitiv.

**Figure 8.**

**JAPAN COMMUNICATION SERVICES SECTOR MSCI RELATIVE VALUATION**

- **Relative P/E (0.85)**

Relative valuation capped at 3.0 due to extreme values.

* Forward P/E of index relative to All Country World MSCI forward P/E. Monthly data through December 2005, weekly thereafter.

Source: I/B/E/S data by Refinitiv.
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